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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

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978 SEA SSS FUL L2

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=> d ibib abs fhitstr 1-44

ANSWER 1 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 148:323091 CA

Antitumor agent for undifferentiated gastric cancer TITLE:

INVENTOR(S): Yamamoto, Yuji; Matsushima, Tomohiro; Tsuruoka, Akihiko; Obaishi, Hiroshi; Nakagawa, Takayuki

PATENT ASSIGNEE(S): Eisai R & D Management Co., Ltd., Japan

SOURCE: PCT Int. Appl., 138pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
WO 2008026748	A1 2008030	6 WO 2007-JP67088	20070827
W: AE, AG, AL	, AM, AT, AU, AZ	, BA, BB, BG, BH, BR,	BW, BY, BZ, CA,
CH, CN, CO	, CR, CU, CZ, DE	, DK, DM, DO, DZ, EC,	EE, EG, ES, FI,
GB, GD, GE	, GH, GM, GT, HN	, HR, HU, ID, IL, IN,	IS, JP, KE, KG,
KM, KN, KP	, KR, KZ, LA, LC	, LK, LR, LS, LT, LU,	LY, MA, MD, ME,
MG, MK, MN	, MW, MX, MY, MZ	, NA, NG, NI, NO, NZ,	OM, PG, PH, PL,
PT, RO, RS	, RU, SC, SD, SE	, SG, SK, SL, SM, SV,	SY, TJ, TM, TN,
TR, TT, TZ	, UA, UG, US, UZ	, VC, VN, ZA, ZM, ZW	
RW: AT, BE, BG	, CH, CY, CZ, DE	, DK, EE, ES, FI, FR,	GB, GR, HU, IE,

IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.:

JP 2006-230816 A 20060828
GI

$$\begin{array}{c}
R^3 \quad R^5 \\
O-Y^1-N-CO-N-R^4
\end{array}$$

$$R^2 \quad N$$

AB A compound represented by the general formula (I), a pharmacol. acceptable salt thereof, or a solvate of the compound or the salt can exert its effect more effectively on undifferentiated gastric cancer, and can also exerts its effect more effectively on a living body having at least one member selected from the group consisting of a cell over-expressing FGFR2 and a cell expressing mutant FGFR2.

IT 417716-92-8P, 4-(3-Chloro-4-(cyclopropylaminocarbonyl)aminophenoxy)-7-methoxy-6-quinolinecarboxamide RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

Ι

(quinolinylurea analogs as antitumor agents for undifferentiated gastric cancer)

RN 417716-92-8 CA

CN 6-Quinolinecarboxamide, 4-[3-chloro-4-[[(cyclopropylamino)carbonyl]amino]p henoxy]-7-methoxy- (CA INDEX NAME)

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 148:253561 CA

TITLE: E7080, a novel inhibitor that targets multiple

kinases, has potent antitumor activities against stem $\,$

cell factor producing human small cell lung cancer

H146, based on angiogenesis inhibition

mi40, based on anglogenesis immibition

AUTHOR(S): Matsui, Junji; Yamamoto, Yuji; Funahashi, Yasuhiro;

Tsuruoka, Akihiko; Watanabe, Tatsuo; Wakabayashi,

Toshiaki; Uenaka, Toshimitsu; Asada, Makoto

CORPORATE SOURCE: Tsukuba Research Laboratories, Tsukuba, Ibaraki,

300-2635, Japan

SOURCE: International Journal of Cancer (2007), Volume Date

2008, 122(3), 664-671

CODEN: IJCNAW; ISSN: 0020-7136

PUBLISHER: Wiley-Liss, Inc.

DOCUMENT TYPE: Journal LANGUAGE: English

E7080 is an orally active inhibitor of multiple receptor tyrosine kinases AB including VEGF, FGF and SCF receptors. In this study, we show the inhibitory activity of E7080 against SCF-induced angiogenesis in vitro and tumor growth of SCF-producing human small cell lung carcinoma H146 cells in vivo. E7080 inhibits SCF-driven tube formation of HUVEC, which express SCF receptor, KIT at the IC50 value of 5.2 nM and it was almost identical for VEGF-driven one (IC50 = 5.1 nM). To assess the role of SCF/KIT signaling in tumor angiogenesis, we evaluated the effect of imatinib, a selective KIT kinase inhibitor, on tumor growth of H146 cells in nude mice. Imatinib did not show the potent antitumor activity in vitro (IC50 = 2,200 nM), because H146 cells did not express KIT. However, oral administration of imatinib at 160 mg/kg clearly slowed tumor growth of H146 cells in nude mice, accompanied by decreased microvessel d. Oral administration of E7080 inhibited tumor growth of H146 cells at doses of 30 and 100 mg/kg in a dose-dependent manner and caused tumor regression at

ΙT

CN

100 mg/kg. While anti-VEGF antibody also slowed tumor growth, it did not cause tumor regression. These results indicate that KIT signaling has a role in tumor angiogenesis of SCF-producing H146 cells, and E7080 causes regression of H146 tumors as a result of antiangiogenic activity mediated by inhibition of both KIT and VEGF receptor signaling. E7080 may provide therapeutic benefits in the treatment of SCF-producing tumors. 417716-92-8

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(E 7080; E7080, a novel inhibitor that targets multiple kinases, has potent antitumor activities against stem cell factor producing human small cell lung cancer H146, based on angiogenesis inhibition)

RN 417716-92-8 CA

6-Quinolinecarboxamide, 4-[3-chloro-4-[[(cyclopropylamino)carbonyl]amino]phenoxy]-7-methoxy- (CA INDEX NAME)

$$\begin{array}{c|c} \text{MeO} & \text{N} \\ \text{H}_2\text{N} - \text{C} & \text{O} \\ \text{O} & \text{O} \\ \text{NH} & \text{C} \\ \text{NH} \\ \text{NH} \\ \end{array}$$

REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 148:205827 CA

TITLE: The orally-active and selective c-Fms tyrosine kinase

inhibitor Ki20227 inhibits disease progression in a

collagen-induced arthritis mouse model

AUTHOR(S): Ohno, Hiroaki; Uemura, Yasunori; Murooka, Hideko;

Takanashi, Hiromi; Tokieda, Takemi; Ohzeki, Yumiko;

Kubo, Kazuo; Serizawa, Isao

CORPORATE SOURCE: Discovery Research Laboratories, Research Division,

Kirin Pharma Co., Ltd., Gunma, Japan

SOURCE: European Journal of Immunology (2008), 38(1), 283-291

CODEN: EJIMAF; ISSN: 0014-2980

PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal LANGUAGE: English

AB Macrophage colony-stimulating factor (M-CSF) is important in the

development of macrophages and osteoclasts. Previous studies have also

shown that CD11b+ myeloblasts and osteoclasts play key roles during inflammation and bone destruction in arthritic lesions. In this study, we investigated whether $N-\{4-[(6,7-dimethoxy-4-quinoly1)oxy]-2-methoxyphenyl\}-$ N'-[1-(1,3-thiazole-2-yl)ethyl] urea (Ki20227), an inhibitor of the M-CSF receptor (c-Fms), suppressed disease progression in a type II collagen (CII)-induced arthritis (CIA) mouse model. We found that Ki20227 inhibited M-CSF-dependent reactions, such as lipopolysaccharide-induced tumor necrosis factor- α production, which were enhanced by M-CSF in vitro. Oral administration of Ki20227 in vivo prevented inflammatory cell infiltration and bone destruction, and consequently suppressed disease progression. In addition, the number of CD11b+, Gr-1+, and Ly-6G+ cells in the spleen decreased in the Ki20227-treated mice, and the CII-induced cytokine production in splenocytes isolated from the Ki20227-treated arthritic mice was also reduced. These observations indicate that Ki20227 might exert its therapeutic effects in the CIA mouse model by suppressing the M-CSF-dependent accumulation of both inflammatory and osteoclast cells, as well as by inhibiting inflammatory cytokine production Hence, inhibitors of the c-Fms tyrosine kinase might act as anti-inflammatory or anti-osteolytic agents against arthritis.

IT 623142-96-1, Ki20227

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(orally-active and selective c-Fms tyrosine kinase inhibitor Ki20227 inhibits disease progression in a collagen-induced arthritis mouse model)

RN 623142-96-1 CA

CN Urea, N-[4-[(6,7-dimethoxy-4-quinoliny1)oxy]-2-methoxypheny1]-N'-[1-(2-thiazoly1)ethy1]- (CA INDEX NAME)

L5 ANSWER 4 OF 44 CA COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 148:121726 CA

TITLE: Preparation of quinoline and quinazoline derivatives

as inhibitors of VEGF receptor and HGF receptor

signaling

INVENTOR(S): Raeppel, Stephane; Claridge, Stephen William;

Saavedra, Oscar Mario; Vaisburg, Arkadii; Deziel, Robert; Zhan, Lijie; Mannion, Michael; Gaudette,

III

Frederic; Zhou, Nancy Z.; Isakovic, Ljubomir

PATENT ASSIGNEE(S): Can.

SOURCE: U.S. Pat. Appl. Publ., 122pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	PATENT NO.					D	DATE			APPL	ICAT	ION 1	. O <i>V</i> .		D	ATE	
	2008						2008						-			0070	
WO	2008	0352	09		A2		2008	0327		WO 2	00/-	TB32	b 4		2	00/0	530
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		CH,	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DO,	DZ,	EC,	EE,	EG,	ES,	FΙ,
		GB, GD, GE, KM, KN, KP,			GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,
		KM, KN, KP,			KR,	KΖ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LY,	MA,	MD,	ME,
		MG, MK, MN,			MW,	MX,	MY,	MZ,	NA,	NG,	NΙ,	NO,	NZ,	OM,	PG,	PH,	PL,
		MG, MK, MN, PT, RO, RS,			RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	SV,	SY,	ΤJ,	TM,	TN,
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		ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	ΤG,	BW,
		GH,	GM,	ΚE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,
		BY,	KG,	KZ,	MD,	RU,	ТJ,	TM									
PRIORIT	Y APP	.:						US 2	006-	8034	12P		P 2	0060.	530		
OTHER S	ER SOURCE(S):					PAT	148:	1217.	26								

GΙ

The invention relates to compds. of formula I that inhibit protein AB tyrosine kinase activity, in particular that inhibit the protein tyrosine kinase activity of growth factor receptors, resulting in the inhibition of receptor signaling, for example, the inhibition of VEGF receptor signaling and HGF receptor signaling. Compds. of formula I [A = II (A1 = fused 6-membered aryl or heteroaryl; A2 and A3 independently = N or CR107, wherein R107 = H, halo, alkyl, alkenyl, etc.; D = H, halo, CN, NO2, etc.; m = 0-4); V = (un) substituted 5- to 7-membered cycloalkyl, aryl, heterocylic or heteroaryl ring system; Z = O, S, S(O), SO2, CH2, etc.; E = O, NH, N-alkyl, CH2NH, NHCH2, etc.; X = O, S, NH, N-alkyl, N-OH, etc.; solid/dash line = single or double bond; X1 = O, S, CH2, NH, etc., when solid/dash line = double bond, or X1 = H, halo, CN, NH2, trihalomethyl, etc., when solid/dash = single bond; L and L1 independently = CH, N, C(halo), C(alkyl), etc.; or L1 = O and W = absent; L2 and G = CH2, NH, O, S, C(0), C(S), etc.; B = (L4)n, wherein L4 = absent, CH2, NH, O, S, C(0), C(S), etc.; n = 0-5; W = (un) substituted 5- to 10-membered cycloalkyl, aryl, heterocylic or heteroaryl ring system; R14, R15, R16 and R17 independently = H, halo, trihalomethyl, CN, NO2, NH2, etc.], and their N-oxides, hydrates, solvates, pharmaceutically acceptable salts, prodrugs and complexes thereof, are prepared and disclosed. Thus, e.g., III was prepared in a multi-step synthesis starting from 3,4-dimethoxybenzenamine with 5-(methoxymethylene)-2,2-dimethyl-1,3-dioxane-4,6-dione. The exemplar compds. showed inhibition of recombinant human c-Met/HGF receptor and VEGF receptor enzymic activity in in vitro receptor tyrosine kinase assays. The invention also provides compns. and methods for treating cell proliferative diseases and conditions.

IT 1000850-89-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of quinoline and quinazoline derivs. as inhibitors of VEGF receptor and HGF receptor signaling for treatment of proliferative diseases)

RN 1000850-89-4 CA

CN Urea, N-[4-[(6,7-dimethoxy-4-quinoliny1)oxy]-3-fluoropheny1]-N'-(2-hydroxyethy1)- (CA INDEX NAME)

L5 ANSWER 5 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 148:113266 CA

TITLE: Therapeutic agent for liver fibrosis INVENTOR(S): Yokohama, Hiromitsu; Matsuoka, Toshiyuki PATENT ASSIGNEE(S): Eisai R & D Management Co., Ltd., Japan

SOURCE: PCT Int. Appl., 82pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

E	PAT	ENT	NO.			KIN		DATE			APPL:						ATE	
V	WO.	2008	0019	 56				2008	0103		WO 2						0070	629
		W:									BB,							
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REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 148:24395 CA

TITLE: Antitumor agent for thyroid cancer containing RET

kinase inhibitors

INVENTOR(S):
Matsui, Junji

PATENT ASSIGNEE(S): Eisai R & D Management Co., Ltd., Japan

SOURCE: PCT Int. Appl., 140pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA.	ATENT NO.					D	DATE		ì	APPL	ICAT	ION I	. O <i>V</i>		DZ	ATE	
WO	2007	1361	03		A1	_	2007	1129	1	wo 2	007-	JP60	560		2	0070	517
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		CH,	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,
		GD,	GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KM,
		KN,	KP,	KR,	KΖ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LY,	MA,	MD,	MG,	MK,
	MN, MW, MX			MX,	MY,	MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,
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		ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	ΤG,	BW,
		GH,	GM,	ΚE,	LS,	MW,	MΖ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,
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PRIORIT	Y APP	LN.	INFO	.:					1	JS 2	006-	7475	70P]	P 20	0060	518
OTHER SO	OURCE	(S):			MAR:	PAT	148:	2439.	5								

AB It is intended to provide a pharmaceutical composition exhibiting an effect more effectively on at least one disease selected from the group

consisting of multiple endocrine neoplasia type IIA, multiple endocrine neoplasia type IIB, familial medullary thyroid carcinoma, thyroid cancer, papillary thyroid carcinoma, sporadic medullary thyroid carcinoma, Hirschsprung's disease, pheochromocytoma, parathyroid hyperplasia and gastrointestinal mucosal neuroma; and a therapeutic method for the same. A compound 4-(3-chloro-4-(cyclopropylaminocarbonyl)aminophenoxy)-7-methoxy-6qunolinecarboxamide (I) and an analog thereof can exhibit an effect more effectively on at least one disease selected from the group consisting of multiple endocrine neoplasia type IIA, multiple endocrine neoplasia type IIB, familial medullary thyroid carcinoma, thyroid cancer, papillary thyroid carcinoma, sporadic medullary thyroid carcinoma, Hirschsprung's disease, pheochromocytoma, parathyroid hyperplasia and gastrointestinal mucosal neuroma. Usage of the RET kinase inhibitor for production of remedy for the diseases listed above, and a pharmaceutical composition containing the

RET

kinase inhibitor for treatment of biol. body including mutant RET protein, and method for prediction of sensitivity to RET kinase inhibitors through intracellular mutant RET protein as an indicator are also disclosed. For example, the inhibitory effect of I on RET kinase in human thyroid carcinoma cells (TT cells) was examined Also, a coated tablet containing I methanesulfonate was formulated.

ΙT 417717-07-8

> RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(4-[3-Chloro-4-(cyclopropylaminocarbonyl)aminophenoxy]-7-[2-(4morpholino)ethoxy-6-quinolinecarboxamide; antitumor agent for thyroid cancer containing RET kinase inhibitors)

417717-07-8 CA RN

CN 6-Quinolinecarboxamide, 4-[3-chloro-4-[[(cyclopropylamino)carbonyl]amino]p henoxy]-7-[2-(4-morpholinyl)ethoxy]- (CA INDEX NAME)

ANSWER 7 OF 44 CA COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: TITLE:

147:235192 CA

Preparation of urea derivatives containing nitrogenous aromatic ring compounds as inhibitors of angiogenesis

Funahashi, Yasuhiro; Tsuruoka, Akihiko; Matsukura, INVENTOR(S): Masayuki; Haneda, Toru; Fukuda, Yoshio; Kamata, Junichi; Takahashi, Keiko; Matsushima, Tomohiro; Miyazaki, Kazuki; Nomoto, Ken-Ichi; Watanabe, Tatsuo; Obaishi, Hiroshi; Yamaguchi, Atsumi; Suzuki, Sachi; Nakamura, Katsuji; Mimura, Fusayo; Yamamoto, Yuji; Matsui, Junji; Matsui, Kenji; Yoshiba, Takako; Suzuki, Yasuyuki; Arimoto, Itaru Eisai Co., Ltd, Japan

PATENT ASSIGNEE(S):

SOURCE: U.S., 458pp., Cont.-in-part of Appl. No.

> PCT/JP01/09221. CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

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										EP 2	2001-	9767	86		A3 2	0011	019
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US 2005-293785 A1 20051202

OTHER SOURCE(S): MARPAT 147:235192

GΙ

N-aryl or N-heteroarylurea derivs. represented by the general formula AΒ Ag-Xg-Yg-Tg1 or salts thereof, or hydrates of both [wherein Ag =(un) substituted C6-14 aryl or 5- to 14-membered heterocyclic group; Xg =single bond, O, S, C1-6 alkylene, SO, SO2, (un)substituted NH; Yq = (un) substituted C6-14 aryl, 5- to 14-membered heterocyclic group, C1-8 alkyl, C3-8 alicyclic hydrocarbyl, C6-14 aryl-C1-6 alkyl, 5- to 14-membered heteroaryl-C1-6 alkyl, (CH2)gSO2 (g = 1-8), (CH2) faCH:CH(CH2) fb (fa, fb = 0, 1,2,3), etc.; and Tg1 = a group of the general formula -Eg-CO-NRg1(Zg) or Q; wherein Eg = a single bond, (un) substituted NH; Rg1 = H, (un) substituted C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, C3-8 aliphatic hydrocarbyl, etc.; Zg = C1-8 alkyl, C3-8alicyclic hydrocarbyl, C6-14 aryl, etc.; Zg1, Zg2 = (a) a single bond, (b) C1-6 alkylene optionally having ≥ 1 atoms selected from O, S, and N in the middle or the terminus of the chain and optionally substituted with oxo, (c) (un)substituted C2-6 alkenyl] are prepared These compds. are also inhibitors of vascular endothelial growth factor receptor kinase (VEGFR2 kinase) and are useful as antitumor agents against hemangioma, pancreatic cancer, stomach cancer, colon cancer, breast cancer, prostate cancer, lung cancer, brain tumor, leukemia, or ovarian cancer, as cancer metastasis inhibitors, and for the treatment of retina neovascularization, diabetic retinopathy, atherosclerosis, or inflammatory diseases such as osteoarthritis, rheumatoid arthritis, psoriasis, or delayed hypersensitivity. Thus, to solution of 334 mg 4-[6-(4-benzyloxyphenyl)-7-(2trimethylsilylethoxymethyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yloxy]-2chlorophenylamine in 4 mL DMF were added 0.066 mL pyridine and 0.102 mL Ph chlorocarbonate and stirred at room temperature for 2.5 h to give 330 mg N-[4-[6-(4-benzyloxyphenyl)-7-(2-trimethylsilylethoxymethyl)-7Hpyrrolo[2,3-d]pyrimidin-4-yloxy]-2-chlorophenyl]-N'-cyclopropylurea which (260 mg) was hydrogenolyzed over platinum oxide in ethanol overnight to give 160 mg N-[4-[6-(4-hydroxypheny1)-7-(2-trimethylsilylethoxymethyl)-7Hpyrrolo[2,3-d]pyrimidin-4-yloxy]-2-chlorophenyl]-N'-cyclopropylurea (I). I showed IC50 of 0.02 nM for inhibiting the vascular endothelial growth factor (VEGF)-stimulated sandwich tube formation in vascular endothelial cell.

IT 417713-07-6P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of urea derivs. containing nitrogenous aromatic ring compds. as angiogenesis inhibitors for prevention or treatment of diseases)

RN 417713-07-6 CA

CN Urea, N-[4-[[6-cyano-7-(2-methoxyethoxy)-4-quinolinyl]oxy]phenyl]-N'-cyclopropyl- (CA INDEX NAME)

REFERENCE COUNT: 117 THERE ARE 117 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L5 ANSWER 8 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER:

147:93969 CA

TITLE:

Combination of anti-angiopoietin 2 human monoclonal antibody and of VEGF-A, KDR and/or FLT1 antagonist for $\ensuremath{\text{NDR}}$

treating cancer

INVENTOR(S): Brown, Jeffrey Lester; Emery, Stephen Charles; Blakey,

David Charles

PATENT ASSIGNEE(S): Astrazeneca AB, Swed.; Astrazeneca UK Limited

SOURCE: PCT Int. Appl., 88pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PAT	FENT		KIN	D	DATE			APPL					D	ATE			
WO	2007	0688	95		A1	_	2007	0621		WO 2		 GB46			2	0061	212
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	ВG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KM,	KN,
		KP,	KR,	KΖ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,
		MN,	MW,	MX,	MY,	MZ,	NA,	NG,	ΝI,	NO,	NΖ,	OM,	PG,	PH,	PL,	PT,	RO,
		RS,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	SV,	SY,	ΤJ,	TM,	TN,	TR,	TT,
		TZ,	UA,	UG,	US,	UZ,	VC,	VN,	ZA,	ZM,	ZW						
	RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FΙ,	FR,	GB,	GR,	HU,	ΙE,
		IS,	ΙΤ,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,
		CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,	GH,
		GM,	ΚE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,

KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: US 2005-750551P P 20051215

AB The invention relates to agents which possess anti-angiogenic activity and are accordingly useful in methods of treatment of disease states associated with angiogenesis in the animal or human body. More specifically the invention concerns a combination of a monoclonal antibody against human angiopoietin 2 (anti-Ang-2) and an antagonist of the biol. activity of VEGF-A, and/or KDR receptor, and/or FLT1, and uses of such antagonists. The nucleotide sequences and the encoded amino acid sequences of anti-Ang-2 monoclonal antibodies are disclosed.

IT 417716-92-8

RL: PAC (Pharmacological activity); BIOL (Biological study) (combination of anti-angiopoietin 2 human monoclonal antibody and of VEGF-A, KDR and/or FLT1 antagonist for treating cancer)

RN 417716-92-8 CA

CN 6-Quinolinecarboxamide, 4-[3-chloro-4-[[(cyclopropylamino)carbonyl]amino]p henoxy]-7-methoxy- (CA INDEX NAME)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 9 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 147:23734 CA

TITLE: Anti-tumor agent for multiple myeloma

INVENTOR(S):
Kamata, Junichi

PATENT ASSIGNEE(S): Eisai R & D Management Co., Ltd., Japan

SOURCE: PCT Int. Appl., 138pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007061127	A1	20070531	WO 2006-JP323878	20061122

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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN,
             KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK,
             MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO,
             RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT,
             TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
         RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
             IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
             CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
             GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM
PRIORITY APPLN. INFO.:
                                            JP 2005-337772
                                                                A 20051122
                                            US 2006-803450P
                                                                P 20060530
                        MARPAT 147:23734
OTHER SOURCE(S):
GΙ
```

Disclosed is a pharmaceutical composition which can exert its effect with higher efficiency on a living body having at least one cell selected from the group consisting of a cell that over-expresses FGFR3, a cell that has a t(4;14) translocation and a cell that expresses a mutant FGFR3. Also disclosed is a therapeutic method for the living body. A compound represented by the general formula (I) or a pharmaceutically acceptable salt thereof or a solvate of the compound or the salt can exert its effect with higher efficiency on a living body having at least one cell selected from the group consisting of a cell that over-expresses FGFR3, a cell that has a t(4;14) translocation and a cell that expresses a mutant FGFR3.

IT 417713-11-2

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

Ι

(Biological study); USES (Uses) (quinolin carboxamide analogs as FGFR3 inhibitors and antitumor agents for multiple myeloma)

RN 417713-11-2 CA

CN Urea, N-[4-[[6-cyano-7-(2-methoxyethoxy)-4-quinoliny1]oxy]-2-fluorophenyl]-N'-cyclopropyl- (CA INDEX NAME)

21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 10 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 147:23732 CA

TITLE: Anti-tumor agent for multiple myeloma

INVENTOR(S): Kamata, Junichi

PATENT ASSIGNEE(S): Eisai R & D Management Co., Ltd., Japan

SOURCE: PCT Int. Appl., 139pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PAT	ENT	NO.			KIN	D	DATE		-	APPL	ICAT	ION I	NO.		D	ATE	
WO	2007	0611.	30		A1		2007	0531	•	WO 2	006-	JP32.	 3881		2	0061	 122
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	ВG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FΙ,	GB,	GD,
		GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚM,	KN,
		KP,	KR,	KΖ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,
		MN,	MW,	MX,	MY,	MZ,	NA,	NG,	NΙ,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,
		SC,	SD,	SE,	SG,	SK,	SL,	SM,	SV,	SY,	ΤJ,	TM,	TN,	TR,	TT,		
	RS, RU, S TZ, UA, U					UZ,	VC,	VN,	ZA,	ZM,	ZW						
	RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,
		IS,	IT,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,
		CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG,	BW,	GH,
		GM,	ΚE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,
		KG,	KΖ,	MD,	RU,	ТJ,	TM										
PRIORITY	Z APP	LN.	INFO	.:					1	JP 2	005-	3377	72		A 2	0051	122
										US 2	006-	8034	50P		P 2	0060	530
OTHER SO	URCE	(S):			MAR	PAT	147:	2373	2								

GΙ

$$R^{3}$$
 R^{4} $0-Y^{1}-N-CO-N-R^{5}$ R^{2} R^{2}

AB Disclosed is a pharmaceutical composition which can exert its effect with higher efficiency on a living body having at least one cell selected from the group consisting of a cell that over-expresses FGFR3, a cell that has a t(4;14) translocation and a cell that expresses a mutant FGFR3. Also disclosed is a therapeutic method for the living body. A compound represented by the general formula (I) or a pharmaceutically acceptable salt thereof or a solvate of the compound or the salt can exert its effect with higher efficiency on a living body having at least one cell selected from the group consisting of a cell that over-expresses FGFR3, a cell that has a t(4;14) translocation and a cell that expresses a mutant FGFR3.

IT 417713-11-2

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

Ι

(quinolin carboxamide analogs as FGFR3 inhibitors and antitumor agents for multiple myeloma)

RN 417713-11-2 CA

CN Urea, N-[4-[[6-cyano-7-(2-methoxyethoxy)-4-quinoliny1]oxy]-2-fluorophenyl]-N'-cyclopropyl- (CA INDEX NAME)

REFERENCE COUNT:

13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
ANSWER 11 OF 44 CA COPYRIGHT 2008 ACS on STN
L5
                              146:455231 CA
ACCESSION NUMBER:
TITLE:
                              Use of combination of anti-angiogenic substance and
                              c-kit kinase inhibitor
INVENTOR(S):
                              Yamamoto, Yuji
                              Eisai R & D Management Co., Ltd., Japan
PATENT ASSIGNEE(S):
SOURCE:
                              PCT Int. Appl., 102pp.
                              CODEN: PIXXD2
DOCUMENT TYPE:
                              Patent
LANGUAGE:
                              Japanese
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
      PATENT NO.
                                                    APPLICATION NO.
                             KIND DATE
                             ____
      _____
                                                     ______
      WO 2007052850
                              A1 20070510 WO 2006-JP322516
                                                                                 20061107
           W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
                CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
                GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN,
          GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, RY
                GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
                KG, KZ, MD, RU, TJ, TM
PRIORITY APPLN. INFO.:
                                                      JP 2005-322946
                                                                             A 20051107
                              MARPAT 146:455231
OTHER SOURCE(S):
      Disclosed are a pharmaceutical composition having an excellent anti-tumor
      effect, and a therapeutic method for cancer. 4-(3-Chloro-4-
      (cyclopropylaminocarbonyl)aminophenoxy)-7 -methoxy-6-quinolinecarboxamide
      or an analog thereof can be used in combination with a substance having a
      c-kit kinase-inhibiting activity to produce an excellent anti-tumor
      effect. For example, the effect of combination of 4-(3-Chloro-4-
      (cyclopropylaminocarbonyl)aminophenoxy)-7 -methoxy-6-quinolinecarboxamide
      methanesulfonate and imatinib on human gastrointestinal stromal tumor cell
      (GIST882 cell)-bearing model mice was examined
ΙT
      286370-15-8
      RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
```

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(use of combination of anti-angiogenic substance and c-kit kinase inhibitor)

RN 286370-15-8 CA

CN Urea, N-[2-chloro-4-[(6,7-dimethoxy-4-quinazolinyl)oxy]phenyl]-N'-propyl-(CA INDEX NAME)

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 12 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 146:455230 CA

TITLE: Use of combination of anti-angiogenic substance and

c-kit kinase inhibitor

INVENTOR(S):
Yamamoto, Yuji

PATENT ASSIGNEE(S): Eisai R & D Management Co., Ltd., Japan

SOURCE: PCT Int. Appl., 103pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATI	ENT :	NO.			KIN	D	DATE			APPL	ICAT	ION I	NO.		D	ATE	
WO :	2007	 0528	 49		 А1	_	2007	 0510	•	 WO 2	 006-	 JP32	 2514		2.1	 0061:	 107
				AL,	AM,		AU,										
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FΙ,	GB,	GD,
		GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KM,	KN,
		KP,	KR,	KΖ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,
		MN, MW, MX			MY,	${ m MZ}$,	NA,	NG,	ΝI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,
		RS,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	SV,	SY,	ΤJ,	TM,	TN,	TR,	TT,
		TZ,	UA,	UG,	US,	UZ,	VC,	VN,	ZA,	ZM,	ZW						
	RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FΙ,	FR,	GB,	GR,	HU,	ΙE,
		IS,	ΙΤ,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,
	CF, CG, C				CM,	GΑ,	GN,	GQ,	GW,	${ m ML}$,	MR,	ΝE,	SN,	TD,	ΤG,	BW,	GH,
	GM, KE, LS				MW,	${ m MZ}$,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	ΑM,	ΑZ,	BY,
		KG,	KΖ,	MD,	RU,	ΤJ,	TM										
RITY	APP	LN.	INFO	.:						JP 2	005-	3229	46		A 2	0051	107

PRIORITY APPLN. INFO.: JP OTHER SOURCE(S): MARPAT 146:455230

Disclosed are a pharmaceutical composition having an excellent anti-tumor effect, and a therapeutic method for cancer. 4-(3-Chloro-4-(cyclopropylaminocarbonyl)aminophenoxy)-7-methoxy-6-quinolinecarboxamide or an analog thereof can be used in combination with a substance having a c-kit kinase-inhibiting activity to produce an excellent anti-tumor effect. For example, the effect of combination of 4-(3-Chloro-4-

(cyclopropylaminocarbonyl)aminophenoxy)-7 -methoxy-6-quinolinecarboxamide methanesulfonate and imatinib on human gastrointestinal stromal tumor cell (GIST882 cell)-bearing model mice was examined

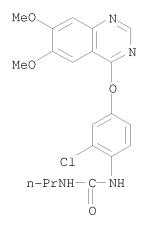
IT 286370-15-8, KRN633

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(use of combination of anti-angiogenic substance and c-kit kinase inhibitor)

RN 286370-15-8 CA

CN Urea, N-[2-chloro-4-[(6,7-dimethoxy-4-quinazolinyl)oxy]phenyl]-N'-propyl-(CA INDEX NAME)



REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 13 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 146:221063 CA

TITLE: Method for assaying anti-tumor effect of angiogenesis

inhibitor

INVENTOR(S): Uenaka, Toshimitsu; Yamamoto, Yuji; Matsui, Junji

PATENT ASSIGNEE(S): Eisai R & D Management Co., Ltd., Japan

SOURCE: PCT Int. Appl., 147pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PAT	TENT	NO.			KIN	D	DATE		-	APPL	ICAT	ION 1	. O <i>l</i>		D	ATE	
						_											
WO	2007	0155	78		A1		2007	0208	,	WO 2	006-	JP31	5698		21	0060	802
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FΙ,	GB,	GD,
		GE,	GH,	GM,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KM,	KN,	KP,
		KR,	KΖ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,	MN,
		MW,	MX,	MZ,	NA,	NG,	NΙ,	NO,	NΖ,	OM,	PG,	PH,	PL,	PT,	RO,	RS,	RU,
		SC,	SD,	SE,	SG,	SK,	SL,	SM,	SY,	ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,
		US,	UZ,	VC,	VN,	ZA,	ZM,	ZW									
	RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,
		IS,	IT,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,

CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,

KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: JP 2005-224173 A 20050802 JP 2006-164700 A 20060614

OTHER SOURCE(S): MARPAT 146:221063

AB Disclosed is a method for predicting the anti-tumor effect of an angiogenesis inhibitor. The method comprises evaluating the EGF-dependence property of an angiogenesis inhibitor with respect to proliferation and/or survival of tumor cells, and using the evaluated EGF-dependence property as a measure. The anti-tumor effect of an angiogenesis inhibitor correlates with the EGF-dependency property of the inhibitor with respect to proliferation and/or survival of tumor cells. Therefore, an angiogenesis inhibitor is capable of exerting an excellent anti-tumor effect by using it in combination with a substance having an EGF inhibitory effect.

IT 286370-15-8, KRN 633

RL: ANT (Analyte); BSU (Biological study, unclassified); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (method for assaying anti-tumor effect of angiogenesis inhibitor by evaluating EGF-dependency)

RN 286370-15-8 CA

CN Urea, N-[2-chloro-4-[(6,7-dimethoxy-4-quinazolinyl)oxy]phenyl]-N'-propyl-(CA INDEX NAME)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 14 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 146:221062 CA

TITLE: Method for predicting antitumor efficacy of

angiogenesis inhibitor Matsui, Junji; Semba, Taro

INVENTOR(S): Matsui, Junji; Semba, Taro

PATENT ASSIGNEE(S): Eisai R & D Management Co., Ltd., Japan

SOURCE: PCT Int. Appl., 104pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PAT	ENT :	NO.			KIN	D	DATE			APPL	ICAT	ION :	NO.		D.	ATE	
WO	2007	0155	 69		A1	_	2007	0208		WO 2	 006-	 JP31	 5563		2	0060	801
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
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		GE,	GH,	GM,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KM,	KN,	KP,
		KR,	KΖ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,	MN,
		MW,	MX,	MZ,	NA,	NG,	NΙ,	NO,	NΖ,	OM,	PG,	PH,	PL,	PT,	RO,	RS,	RU,
		SC,	SD,	SE,	SG,	SK,	SL,	SM,	SY,	ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,
		US,	UZ,	VC,	VN,	ZA,	ZM,	ZW									
	RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,
		IS,	ΙΤ,	LT,	LU,	LV,	MC,	ΝL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ΒJ,
		CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	ΤG,	BW,	GH,
		GM,	KΕ,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	ΑM,	ΑZ,	BY,
		KG,	KΖ,	MD,	RU,	ΤJ,	$_{ m TM}$										
		KG, KZ, MD								^					_ ^		

PRIORITY APPLN. INFO.:

JP 2005-223440 A 20050801

OTHER SOURCE(S): MARPAT 146:221062

AB A method for predicting the antitumor efficacy of an angiogenesis inhibitor is provided, which comprises measuring the number of blood vessels surrounded by pericytes in tumor, and using the measurement value as a measure for the anti-tumor effect.

IT 286370-15-8

RL: ANT (Analyte); BSU (Biological study, unclassified); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (method for predicting antitumor efficacy of angiogenesis inhibitor)

RN 286370-15-8 CA

CN Urea, N-[2-chloro-4-[(6,7-dimethoxy-4-quinazolinyl)oxy]phenyl]-N'-propyl-(CA INDEX NAME)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 15 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 146:221002 CA

TITLE: A c-fms tyrosine kinase inhibitor, Ki20227, suppresses

osteoclast differentiation and osteolytic bone

destruction in a bone metastasis model

AUTHOR(S): Ohno, Hiroaki; Kubo, Kazuo; Murooka, Hideko;

Kobayashi, Yoshiko; Nishitoba, Tsuyoshi; Shibuya,

Masabumi; Yoneda, Toshiyuki; Isoe, Toshiyuki

CORPORATE SOURCE: Pharmaceutical Research Laboratories, Pharmaceutical

Division, Kirin Brewery Co., Ltd., Gunma, Japan

SOURCE: Molecular Cancer Therapeutics (2006), 5(11), 2634-2643

CODEN: MCTOCF; ISSN: 1535-7163

PUBLISHER: American Association for Cancer Research

DOCUMENT TYPE: Journal LANGUAGE: English

In bone metastatic lesions, osteoclasts play a key role in the development AB of osteolysis. Previous studies have shown that macrophage colony-stimulating factor (M-CSF) is important for the differentiation of osteoclasts. In this study, we investigated whether an inhibitor of M-CSF receptor (c-Fms) suppresses osteoclast-dependent osteolysis in bone metastatic lesions. We developed small mol. inhibitors against ligand-dependent phosphorylation of c-Fms and examined the effects of these compds. on osteolytic bone destruction in a bone metastasis model. We discovered a novel quinoline-urea derivative, Ki20227 (N-{4-[(6,7-dimethoxy-4 $quinoly1)oxy]-2-methoxypheny1}-N'-[1-(1,3-thiazole-2-y1)ethy1]urea), which$ is a c-Fms tyrosine kinase inhibitor. The IC50s of Ki20227 to inhibit c-Fms, vascular endothelial growth factor receptor-2 (KDR), stem cell factor receptor (c-Kit), and platelet-derived growth factor receptor {szligbeta} were found to be 2, 12, 451, and 217 nmol/L, resp. Ki20227 did not inhibit other kinases tested, such as fms-like tyrosine kinase-3, epidermal growth factor receptor, or c-Src (c-src proto-oncogene product). Ki20227 was also found to inhibit the M-CSF-dependent growth of M-NFS-60 cells but not the M-CSF-independent growth of A375 human melanoma cells in vitro. Furthermore, in an osteoclast-like cell formation assay using mouse bone marrow cells, Ki20227 inhibited the development of tartrate-resistant acid phosphatase-pos. osteoclast-like cells in a dose-dependent manner. In in vivo studies, oral administration of Ki20227 suppressed osteoclast-like cell accumulation and bone resorption induced by metastatic tumor cells in nude rats following intracardiac injection of A375 cells. Moreover, Ki20227 decreased the number of tartrate-resistant acid phosphatase-pos. osteoclast-like cells on bone surfaces in ovariectomized (ovx) rats. These findings suggest that Ki20227 inhibits osteolytic bone destruction through the suppression of M-CSF-induced osteoclast accumulation in vivo. Therefore, Ki20227 may be a useful therapeutic agent for osteolytic disease associated with bone metastasis and other bone diseases.

IT 623142-96-1, Ki 20227

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (c-fms tyrosine kinase inhibitor Ki20227 suppresses osteoclast

differentiation and osteolytic bone destruction in bone metastasis model)

RN 623142-96-1 CA

CN Urea, N-[4-[(6,7-dimethoxy-4-quinoliny1)oxy]-2-methoxypheny1]-N'-[1-(2-thiazoly1)ethy1]- (CA INDEX NAME)

REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 16 OF 44 CA COPYRIGHT 2008 ACS on STN L5

146:100576 CA ACCESSION NUMBER:

TITLE: Preparation of amorphous salts of 4-[3-chloro-4-

[(cyclopropylaminocarbonyl)amino]phenoxy]-7-methoxy-6-

quinolinecarboxamide as antitumor agents Sakaguchi, Takahisa; Tsuruoka, Akihiko

PATENT ASSIGNEE(S): Eisai R & D Management Co., Ltd., Japan PCT Int. Appl., 49pp. SOURCE:

CODEN: PIXXD2 DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

INVENTOR(S):

PAT	PATENT NO.				KIN	D	DATE			APPL	ICAT	ION I	. O <i>V</i> .		D	ATE	
WO	2006	 1374	 74		A1	_	2006	 1228	,	WO 2	 006-	 JP31	 2487		2	0060	 622
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
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		GE,	GH,	GM,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	ΚM,	KN,	KP,
		KR,	KΖ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,	MN,
		MW,	MX,	MZ,	NA,	NG,	NΙ,	NO,	NΖ,	OM,	PG,	PH,	PL,	PT,	RO,	RS,	RU,
		SC,	SD,	SE,	SG,	SK,	SL,	SM,	SY,	ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,
		US,	UZ,	VC,	VN,	ZA,	ZM,	ZW									
	RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,
		IS,	ΙΤ,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,
		CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	ΤG,	BW,	GH,
		GM,	ΚE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,
		KG,	KΖ,	MD,	RU,	ΤJ,	TM										

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AU 2006260148
                                20061228
                                            AU 2006-260148
                                                                    20060622
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     US 20070004773
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     EP 1894918
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                                20080305
                                            EP 2006-767145
                                                                    20060622
            AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
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     KR 2008008374
                                20080123
                                            KR 2007-727079
                                                                    20071121
PRIORITY APPLN. INFO.:
                                             US 2005-693044P
                                                                 P 20050623
                                            WO 2006-JP312487
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AB This invention pertains to a method for producing amorphous salts of 4-[3-chloro-4-[(cyclopropylaminocarbonyl)amino]phenoxy]-7-methoxy-6-quinolinecarboxamide. The title compds. are useful as antitumor agents for various cancers, such as pancreas cancer, stomach cancer, colon cancer, breast cancer, prostate cancer, lung cancer, renal cancer, brain cancer, blood cancer, ovarian cancer, and hemangioma (no data).

IT 417716-92-8P

RL: PAC (Pharmacological activity); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(drug candidate; preparation of salts of 4-[3-chloro-4-[(cyclopropylaminocarbonyl)amino]phenoxy]-7-methoxy-6-quinolinecarboxamide as antitumor agents)

RN 417716-92-8 CA

CN 6-Quinolinecarboxamide, 4-[3-chloro-4-[[(cyclopropylamino)carbonyl]amino]p henoxy]-7-methoxy- (CA INDEX NAME)

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 17 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 145:46082 CA

TITLE: Preparation of substituted heterocycles for treating

HGF mediated diseases

INVENTOR(S): Kim, Tae-Seong; Bellon, Steven; Booker, Shon;
D'Angelo, Noel; Dominguez, Celia; Fellows, Ingrid;

Lee, Matthew; Liu, Longbin; Rainbeau, Elizabeth; Siegmund, Aaron C.; Tasker, Andrew; Xi, Ning; Cheng,

Yuan

PATENT ASSIGNEE(S): Amgen Inc., USA

SOURCE: PCT Int. Appl., 228 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PAT	PATENT NO.					D	DATE		APPLICATION NO.						DATE			
	2006060318 2006060318								WO 2005-US42935						20051129			
	₩:	CN, GE, KZ, MZ, SG,	CO, GH, LC, NA, SK,	CR, GM, LK, NG, SL,	CU, HR, LR, NI, SM,	CZ, HU, LS, NO, SY,	DE, ID, LT, NZ,	AZ, DK, IL, LU, OM, TM,	DM, IN, LV, PG,	DZ, IS, LY, PH,	EC, JP, MA, PL,	EE, KE, MD, PT,	EG, KG, MG, RO,	ES, KM, MK, RU,	FI, KN, MN, SC,	GB, KP, MW, SD,	GD, KR, MX, SE,	
	RW:	AT, IS, CF, GM,	BE, IT, CG, KE,	BG, LT, CI, LS,	LU, CM, MW,	CY, LV, GA, MZ,	MC, GN, NA,	DE, NL, GQ, SD,	PL, GW,	PT, ML,	RO, MR,	SE, NE,	SI, SN,	SK, TD,	TR, TG,	BF, BW,	ВJ, GH,	
CA	CA 2587642				A1 20060608 A1 20060608				AU 2005-312048 CA 2005-2587642 US 2005-289659						20051129			
EP	1827 R:	AT, IS,	BE,	BG, LI,	CH, LT,	CY,	CZ,	0905 DE, MC,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	•	IE,	
RIORIT					А				MX 2007-6230 US 2004-632271P WO 2005-US42935					P 20041130				

AΒ The title compds. R1XWAYR [I; R = (un)substituted aryl, heterocyclyl, cycloalkyl, etc.; R1 = II (wherein ring T = Ph, 5-6 membered heteroaryl; Z = N or CH; R10 = alkoxy, haloalkoxy, arylalkoxy, etc.); W = (un) substituted aryl, 5-6 membered heteroaryl; A = (un) substituted 5-7 membered N-containing heterocyclyl; X = O, S, NR2, CR3R4; Y = a bond, CO, CONH, etc.; R2 = H, alkyl, haloalkyl, etc.; R3, R4 = H, alkyl, aryl, etc.] which are effective for prophylaxis and treatment of diseases, such as HGF mediated diseases, were prepared E.g., a multi-step synthesis of III, starting from 2-benzyl-3H-pyrimidin-4-one, was given. Compds. I showed inhibition of c-Met kinase at doses less than 2 μM . The invention encompasses novel compds. I, analogs, prodrugs and pharmaceutically acceptable salts thereof, pharmaceutical compns. and methods for prophylaxis and treatment of diseases and other maladies or conditions involving, cancer and the like. The subject invention also relates to processes for making such compds. as well as to intermediates useful in such processes.

IT 890021-57-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of substituted heterocycles for treating HGF mediated diseases) 890021-57-5 CA

III

CN Glycine, N-[[[3-fluoro-4-[[6-methoxy-7-(phenylmethoxy)-4-quinolinyl]oxy]phenyl]amino]carbonyl]-, ethyl ester (CA INDEX NAME)

RN

L5 ANSWER 18 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 144:362578 CA

TITLE: Identification of Potent and Selective Inhibitors of

PDGF Receptor Autophosphorylation

AUTHOR(S): Furuta, Takayuki; Sakai, Teruyuki; Senga, Terufumi;

Osawa, Tatsushi; Kubo, Kazuo; Shimizu, Toshiyuki; Suzuki, Rika; Yoshino, Tetsuya; Endo, Megumi; Miwa,

Atsushi

CORPORATE SOURCE: Pharmaceutical Research Laboratories, Kirin Brewery

Co. Ltd., Takasaki, Gunma, 370-1295, Japan

SOURCE: Journal of Medicinal Chemistry (2006), 49(7),

2186-2192

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 144:362578

We report the structure-activity relationship of quinoline and quinazoline derivs., which include urea, thiourea, urethane, and acylthiourea groups, as inhibitors of the platelet-derived growth factor (PDGF) receptor autophosphorylation. Our previous studies showed that the quinoline and quinazoline derivs. including urea, thiourea, and carbamate groups were highly potent compds. as the PDGF receptor autophosphorylation inhibitor, but these compds. did not exhibit receptor selectivity between the PDGF receptor and the c-kit receptor. As a result of further synthesis and biol. evaluation, we have found that the quinoline and quinazoline-acylthiourea derivs. showed not only good inhibitory activity for the PDGF receptor but also receptor selectivity between the PDGF receptor and the c-kit receptor. Furthermore $N-\{4-[(6,7-dimethoxy-4$ quinolyl)oxy]phenyl}-N'-(2-methylbenzoyl)thiourea exhibited potent oral efficacy in in vivo assay using the rat carotid balloon injury model. Therefore, the quinoline and quinazoline-acylthiourea derivs. may be expected to have potential as therapeutic agents for the treatment of restenosis.

IT 688309-37-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Identification of Potent and Selective Inhibitors of PDGF Receptor Autophosphorylation)

RN 688309-37-7 CA

CN Urea, N-(2-cyclohexylethyl)-N'-[4-[(6,7-dimethoxy-4-quinolinyl)oxy]phenyl]- (CA INDEX NAME)

PAGE 1-A

PAGE 2-A



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 19 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 144:324798 CA

TITLE: Simultaneous use of sulfonamide-containing compound

and angiogenesis inhibitor

INVENTOR(S): Owa, Takashi; Ozawa, Yoichi; Semba, Taro

PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan SOURCE: PCT Int. Appl., 270 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 6 PATENT INFORMATION:

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DATE
                                             APPLICATION NO.
     PATENT NO.
                          KIND
                                                                       DATE
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                                             _____
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                          A1 20060323 WO 2005-JP17228
     WO 2006030941
                                                                      20050913
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     WO 2006030947
                          A1
                                 20060323
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             CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
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     US 20060135486
                          A1 20060622
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                                  20070620
                                              EP 2005-785820
                                                                       20050913
     EP 1797877
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              IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL,
              BA, HR, MK, YU
PRIORITY APPLN. INFO.:
                                               US 2004-609452P
                                                                    P 20040913
                                               JP 2005-54150
                                                                    A 20050228
                                               JP 2005-54475
                                                                    A 20050228
                                               WO 2005-JP17238
                                                                   W
                                                                       20050913
OTHER SOURCE(S):
                          MARPAT 144:324798
     A pharmaceutical composition comprising a sulfonamide-containing compound
combined
     with an angiogenesis inhibitor.
     286370-15-8, KRN 633
ΙT
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (sulfonamide-containing compds. and angiogenesis inhibitors for combination
        chemotherapy of cancer)
RN
     286370-15-8 CA
     Urea, N-[2-chloro-4-[(6,7-dimethoxy-4-quinazolinyl)oxy]phenyl]-N'-propyl-
CN
     (CA INDEX NAME)
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REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 20 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 144:304481 CA

TITLE: Improvement by solid dispersion of the bioavailability

of KRN633, a selective inhibitor of VEGF receptor-2 tyrosine kinase, and identification of its potential

therapeutic window

AUTHOR(S): Matsunaga, Naoki; Nakamura, Kazuhide; Yamamoto,

Atsushi; Taguchi, Eri; Tsunoda, Hiromi; Takahashi,

Kazumi

CORPORATE SOURCE: CMC R&D Laboratories, Kirin Brewery Co. Ltd.,

Takasaki, Gunma, Japan

SOURCE: Molecular Cancer Therapeutics (2006), 5(1), 80-88

CODEN: MCTOCF; ISSN: 1535-7163

PUBLISHER: American Association for Cancer Research

DOCUMENT TYPE: Journal LANGUAGE: English

AB KRN633 is a potent inhibitor of vascular endothelial growth factor (VEGF) receptor tyrosine kinases. However, it is poorly water-soluble; consequently, relatively high doses are required to achieve substantial in vivo tumor growth suppression after oral administration. We subjected KRN633 to the solid dispersion technique to improve its solubility, absorption, and antitumor efficacy after oral administration. This technique transformed the drug into an amorphous state and dramatically improved its dissoln. rate. It also enhanced the bioavailability of the drug in rats by .apprx.7.5-fold. The solid dispersion form of KRN633 also dramatically inhibited human tumor growth in murine and rat xenograft models: similar rates of tumor growth inhibition were obtained with 10- to 25-fold lower doses of the solid dispersion preparation relative to the pure drug in its crystalline state. Histol. anal. of tumors treated with the solid dispersion preparation revealed a significant reduction in microvessel d. at much lower

doses

when compared with the crystalline form preparation $% \left(1\right) =\left(1\right) +\left(1\right)$

using the solid dispersion form in a rat xenograft model revealed that there was a substantial range of doses at which KRN633 in the solid dispersion form showed significant antitumor activity but did not induce

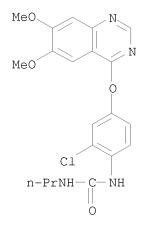
weight loss or elevate total urinary protein levels. These data suggest that the solid dispersion technique is an effective approach for developing KRN633 drug products and that KRN633 in the solid dispersion form may be a highly potent, orally available drug with a wide therapeutic window for diseases associated with abnormal angiogenesis.

IT 286370-15-8, KRN 633

RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (improvement by solid dispersion of bioavailability of KRN633 and identification of therapeutic window)

RN 286370-15-8 CA

CN Urea, N-[2-chloro-4-[(6,7-dimethoxy-4-quinazolinyl)oxy]phenyl]-N'-propyl-(CA INDEX NAME)



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 21 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 144:299488 CA

TITLE: Stable medicinal compositions of quinolinecarboxamide

derivative

INVENTOR(S): Furitsu, Hisao; Suzuki, Yasuyuki

PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan SOURCE: PCT Int. Appl., 53 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT NO.				KIN	D	DATE			APPLICATION NO.					DATE			
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WO 2006030826			A1 20060323			WO 2005-JP16941						20050914					
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		ZA,	ZM,	ZW													

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             CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
             GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM
     AU 2005283422
                                20060323
                                            AU 2005-283422
                          Α1
                                                                    20050914
     CA 2579810
                          Α1
                                20060323
                                            CA 2005-2579810
                                                                    20050914
     EP 1797881
                          Α1
                                20070620
                                            EP 2005-783232
                                                                    20050914
         R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
             IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL,
             BA, HR, MK, YU
                                20070718
                                            CN 2005-80026468
     CN 101001629
                          Α
                                                                    20050914
     KR 2007053205
                                20070523
                                            KR 2007-701347
                                                                    20070119
                          Α
     IN 2007CN01571
                                20070831
                                            IN 2007-CN1571
                                                                    20070417
                          Α
PRIORITY APPLN. INFO.:
                                            JP 2004-272625
                                                                   20040917
                                                                 Α
                                            WO 2005-JP16941
                                                                   20050914
                                                                 W
     This invention relates to highly stable medicinal composition which comprises
AΒ
     4-(3-chloro-4-(cyclopropylamino-carbonyl)aminophenoxy)-7-methoxy-6-
```

AB This invention relates to highly stable medicinal composition which comprises 4-(3-chloro-4-(cyclopropylamino-carbonyl)aminophenoxy)-7-methoxy-6-quinolinecarboxamide (I), salts or solvates thereof, a compound whose 5 % aqueous solution or dispersion has a pH of 8 or higher, and/or silicic acid, salts or solvates thereof. Decomposition and surface gelation of I during storage at high humidity and temperature, is prevented. For example, tablets were formulated containing I·methanesulfonate salt 24, Aerosil-200 192, mannitol 1236, Avicel PH101 720, hydroxypropyl cellulose 72, Ac-Di-Sol 120, Na stearyl fumarate 36 parts and coated with Opadry Yellow.

IT 417716-92-8P, 4-(3-Chloro-4-(cyclopropylamino-carbonyl)aminophenoxy)-7-methoxy-6-quinolinecarboxamide
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of quinolinecarboxamide derivative)

RN 417716-92-8 CA

CN 6-Quinolinecarboxamide, 4-[3-chloro-4-[[(cyclopropylamino)carbonyl]amino]p henoxy]-7-methoxy- (CA INDEX NAME)

REFERENCE COUNT:

14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

INVENTOR(S):

L5 ANSWER 22 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 143:405917 CA

TITLE: Preparation of quinazoline derivatives as protein

kinase inhibitors Liang, Congxin

PATENT ASSIGNEE(S): The Scripps Research Institute, USA

SOURCE: PCT Int. Appl., 56 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.				KIN	D	DATE			APPLICATION NO.					DATE				
	2005097137 2005097137			A2		20051020			WO 2005-US10974					20050331				
WO			-						D.7	D.D.	D.C.	D.D.	DII	D.17	DE	O.7	011	
	W:	ΑĿ,	AG,	AL,	AM,	AT,	ΑU,	AΖ,	ВA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,	
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FΙ,	GB,	GD,	
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KΖ,	LC,	
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NΙ,	
							PL,											
		SY,	ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	
		ΑZ,	BY,	KG,	KΖ,	MD,	RU,	ΤJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	
		EE,	ES,	FΙ,	FR,	GB,	GR,	HU,	ΙE,	IS,	IT,	LT,	LU,	MC,	NL,	PL,	PT,	
		RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	
		MR,	ΝE,	SN,	TD,	ΤG												
PRIORITY APPLN. INFO.: US 2004-558025P									P 2	0040	331							
HER SO	ER SOURCE(S):					MARPAT 143:405917												

AB The title quinazoline derivs. I [wherein X = N or (un)substituted CH; Y = 0 or (un)substituted NH; Z = (un)substituted Ph, pyridinyl, indolyl, etc.;

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R1 = H, alkyl, alkoxy, cycloalkoxy, or heterocycloalkoxy; R2 = OH, alkoxy, cycloalkoxy, or (un)substituted NH2; n = 1 or 2] or pharmaceutically acceptable salts thereof were prepared as inhibitors of protein kinases. For example, the compound II \bullet Na was prepared in a multi-step synthesis in good yield. I are useful in treating disorders related to abnormal protein kinase activities such as cancer (no data).

IT 867146-09-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of quinazoline derivs. as protein kinase inhibitors)

RN 867146-09-6 CA

CN Butanoic acid, 4-[[4-[3-chloro-4-[[(cyclopropylamino)carbonyl]amino]phenox y]-6-methoxy-7-quinolinyl]oxy]-3-hydroxy- (CA INDEX NAME)

L5 ANSWER 23 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 143:405916 CA

TITLE: Preparation of quinazoline derivatives as protein

kinase inhibitors

INVENTOR(S):
Liang, Congxin

PATENT ASSIGNEE(S): The Scripps Research Institute, USA

SOURCE: PCT Int. Appl., 56 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005097134	A2	20051020	WO 2005-US10968	20050331
WO 2005097134	A3	20060126		

```
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
             SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
             EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
             RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
             MR, NE, SN, TD, TG
                                            US 2004-558025P
PRIORITY APPLN. INFO.:
                                                                Ρ
                                                                   20040331
OTHER SOURCE(S):
                         CASREACT 143:405916; MARPAT 143:405916
GΙ
```

AB The title quinazoline derivs. I [wherein X = N or (un)substituted CH; Y = O or (un)substituted NH; Z = (un)substituted Ph, pyridinyl, indolyl, etc.; R1 = H, alkyl, alkoxy, cycloalkoxy, or heterocycloalkoxy; R2 = OH, alkoxy, cycloalkoxy, or (un)substituted NH2; n = 1 or 2] or pharmaceutically acceptable salts thereof were prepared as inhibitors of protein kinases. For example, the compound II•Na was prepared in a multi-step synthesis in good yield. I are useful in treating disorders related to abnormal protein kinase activities such as cancer (no data).

II 867146-09-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of quinazoline derivs. as protein kinase inhibitors)

RN 867146-09-6 CA

CN Butanoic acid, 4-[[4-[3-chloro-4-[[(cyclopropylamino)carbonyl]amino]phenox y]-6-methoxy-7-quinolinyl]oxy]-3-hydroxy- (CA INDEX NAME)

$$\begin{array}{c} \text{OH} \\ \text{HO}_2\text{C}-\text{CH}_2-\text{CH}-\text{CH}_2-\text{O} \\ \text{MeO} \\ \end{array}$$

L5 ANSWER 24 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 143:332539 CA

TITLE: Compositions containing amorphous N-[2-chloro-4-[(6,7-

dimethoxy-4-quinazolinyl)oxy]phenyl]-N'-propylurea as

angiogenesis inhibitors

INVENTOR(S): Matsunaga, Naoki; Nakamura, Kazuhide; Taguchi, Eri;

Yamamoto, Atsushi

PATENT ASSIGNEE(S): Kirin Brewery Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005263758	А	20050929	JP 2004-82872	20040322
PRIORITY APPLN. INFO.:			JP 2004-82872	20040322

AB This invention pertains to a method for producing amorphous

N-[2-chloro-4-[(6,7-dimethoxy-4-quinazolinyl)oxy]phenyl]-N'-propylurea and the composition containing the same compound Powder X-ray diffraction anal.

was

RN

performed. The antitumor activity was also studied by use of a formulation of the title compound $% \left(1\right) =\left(1\right) +\left(1\right) +\left$

IT 286370-15-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(compns. containing amorphous N-[2-chloro-4-[(6,7-dimethoxy-4quinazolinyl)oxy]phenyl]-N'-propylurea as angiogenesis inhibitors) 286370-15-8 CA CN Urea, N-[2-chloro-4-[(6,7-dimethoxy-4-quinazolinyl)oxy]phenyl]-N'-propyl-(CA INDEX NAME)

L5 ANSWER 25 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 143:120562 CA

TITLE: Crystal of salt of 4-[3-chloro-4-

(cyclopropylaminocarbonyl)amino-phenoxy]-7-methoxy-6-quinolinecarboxamide or solvate thereof and processes

for producing these

INVENTOR(S): Matsushima, Tomohiro; Nakamura, Taiju; Yoshizawa,

Kazuhiro; Kamada, Atsushi; Ayata, Yusuke; Suzuki, Naoko; Arimoto, Itaru; Sakaguchi, Takahisa; Gotoda,

Masaharu

PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan

SOURCE: PCT Int. Appl., 95 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PAT	CENT	NO.			KIN	D	DATE			APPL	ICAT	ION	NO.		D	ATE	
WO	2005	0637	 13		A1	_	2005	0714		WO 2	 004-	 JP19	 223		2	0041	222
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	KΖ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
		ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
	RW:	BW,	GH,	GM,	ΚE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,
		ΑZ,	BY,	KG,	KΖ,	MD,	RU,	ТJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,
		EE,	ES,	FΙ,	FR,	GB,	GR,	HU,	ΙE,	IS,	IT,	LT,	LU,	MC,	NL,	PL,	PT,
		RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,
		MR,	ΝE,	SN,	TD,	ΤG											
AU	2004	3092	17		A1		2005	0714		AU 2	004-	3092	17		2	0041	222
CA	2543	650			A1		2005	0714	1	CA 2	004-	2543	650		2	0041	222
EP	1698	623			A1	20060906 EP 2004-807580								2	0041	222	
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙΤ,	LI,	LU,	NL,	SE,	MC,	PT,

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU CN 1890220 20070103 CN 2004-80036184 20041222 Α BR 2004018200 Α 20070417 BR 2004-18200 20041222 US 20070078159 Α1 20070405 US 2006-577531 20060428 MX 2006PA07256 Α 20060823 MX 2006-PA7256 20060622 KR 804566 В1 20080220 KR 2006-713993 20060712 IN 2006CN02572 20070608 IN 2006-CN2572 20060713 Α NO 2006003383 20060925 NO 2006-3383 20060721 Α KR 2007107185 20071106 KR 2007-722490 Α 20071001 KR 2008028511 20080331 KR 2008-705282 20080303 Α PRIORITY APPLN. INFO.: JP 2003-430939 A 20031225 WO 2004-JP19223 W 20041222 KR 2006-713993 A3 20060712 KR 2007-722490 A3 20071001

AΒ Disclosed are crystals of the hydrochloride, hydrobromide, p-toluenesulfonate, sulfate, methanesulfonate, or ethanesulfonate of 4-[3-chloro-4-(cyclopropylamino-carbonyl)aminophenoxy]-7-methoxy-6quinolinecarboxamide or crystals of a solvate of any of these. The crystals have improved physicochem. and pharmacokinetic properties, and suitable for use as neovascularization inhibitors for treatment of related diseases.

ΙT 857890-33-6P

> RL: PEP (Physical, engineering or chemical process); PKT (Pharmacokinetics); PRP (Properties); PYP (Physical process); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

(crystal of salt of 4-[3-chloro-4-(cyclopropylaminocarbonyl)aminophenoxy]-7-methoxy-6-quinolinecarboxamide or solvate thereof as neovascularization inhibitor, and preparation thereof)

857890-33-6 CA RN

6-Quinolinecarboxamide, 4-[3-chloro-4-[[(cyclopropylamino)carbonyl]amino]p CN henoxy]-7-methoxy-, hydrobromide (1:1) (CA INDEX NAME)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 26 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 142:481959 CA

TITLE: Preparation of urea moiety-containing

quinolinecarboxamide derivatives

INVENTOR(S): Naito, Toshihiko; Yoshizawa, Kazuhiro

PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan SOURCE: PCT Int. Appl., 21 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

P		ENT				KIN	D	DATE						NO.				
— W						A1	_	2005	0519					 6526			 0041	
		W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	ΒA,	BB	8, BG	, BR	, BW,	BY,	BZ,	CA,	CH,
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ	, EC	, EE	, EG,	ES,	FI,	GB,	GD,
			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS	, JF	, KE	, KG,	KP,	KR,	KΖ,	LC,
			LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG	, MK	, MN	, MW,	MX,	MZ,	NA,	ΝI,
			NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU	J, SC	, SD	, SE,	SG,	SK,	SL,	SY,
			ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US	, UZ	, VC	, VN,	YU,	ZA,	ZM,	ZW
		RW:	BW,	GH,	GM,	ΚE,	LS,	MW,	MΖ,	NA,	SD	, SI	, SZ	, TZ,	UG,	ZM,	ZW,	ΑM,
			AZ,	BY,	KG,	KΖ,	MD,	RU,	ТJ,	TM,	ΑT	, BE	, BG	, СН,	CY,	CZ,	DE,	DK,
			EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IS	s, II	, LU	, MC,	NL,	PL,	PT,	RO,
			SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI	, CM	, GA	, GN,	GQ,	GW,	ML,	MR,
			NE,	SN,	TD,	ΤG												
E	ŀΡ	1683	785			A1		2006	0726		EΡ	2004	-818	213		2	0041	108
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	R, II	, LI	, LU,	NL,	SE,	MC,	PT,
			IE,	SI,	LT,	LV,	FΙ,	RO,	MK,	CY,	AL	, TF	, BG	, CZ,	EE,	HU,	PL,	SK,
			HR,	IS,	YU													
С	Ν	1878	751			Α		2006	1213		CN	2004	-800	33071		2	0041	108
		2007						2007			US	2006	-577	308		2	0060	428
I	Ν	2006	CN02	045		Α		2007	0601		IN	2006	-CN2	045		2	0060	609
PRIORI	TY	APP	LN.	INFO	.:						JΡ	2003	-381	249		A 2	0031	111
											WO	2004	-JP1	6526		W 2	0041	108
OTHER GI	THER SOURCE(S):					CAS:	REAC	CT 14	2:48	1959	; M	IARPA	T 14	2:481	959			

AB The title compds. I [wherein R1 is hydrogen, C1-6 alkyl, or C3-8 cycloalkyl; and R2 is hydrogen or methoxy] are prepared by reaction of

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4-amino-3-chlorophenol with aryl chloroformate, followed by reaction with an amine and reaction of the resulting urea derivative with a chloroquinoline derivative I are useful in the treatment of diseases accompanied by abnormal proliferation of angiogenesis (no data). Thus, reaction of 4-amino-3-chlorophenol with Ph chloroformate, followed by reaction with cyclopropylamine and reaction of the resulting urea derivative with 7-methoxy-4-chloroquinoline-6-carboxamide, gave 4-(3-chloro-4-(cyclopropylaminocarbonyl) aminophenoxy) - 7-methoxy - 6-quinolinecarboxamide. 417716-92-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(amination of aryl chloroformate or amination of aryl N-hydroxyphenylcarbamate)

417716-92-8 CA RM

CN 6-Quinolinecarboxamide, 4-[3-chloro-4-[[(cyclopropylamino)carbonyl]amino]p henoxy]-7-methoxy- (CA INDEX NAME)

REFERENCE COUNT: THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 27 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER:

142:373856 CA

TITLE: Preparation of quinolines and quinazolines as

inhibitors of c-Met and other tyrosine kinases and therapeutic uses against proliferative diseases

Bannen, Lynne Canne; Chan, Diva Sze-ming; Chen, Jeff; INVENTOR(S):

Dalrymple, Lisa Esther; Forsyth, Timothy Patrick; Huynh, Tai Phat; Jammalamadaka, Vasu; Khoury, Richard George; Leahy, James William; Mac, Morrison B.; Mann,

Grace; Mann, Larry W.; Nuss, John M.; Parks, Jason Jevious; Takeuchi, Craig Stacy; Wang, Yong; Xu, Wei

PATENT ASSIGNEE(S): Exelixis, Inc., USA SOURCE: PCT Int. Appl., 428 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: En FAMILY ACC. NUM. COUNT: 1 English

PATENT INFORMATION:

	TENT											ION :				ATE		
WO	2005	0301	40		A2		2005	0407	,							0040	924	
WU	2005																	
	W:						AU,					•						
		•	•		•		DE,	•	•	•			•	•	•	•		
			,	,		,	ID,		,	,	,	,	,	,	,	,	,	
				,	,	,	LV,	,	,	,	,	,		,		,	,	
		NO,	NΖ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	
		ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW	
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	ΑM,	
		ΑZ,	BY,	KG,	KΖ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	
		EE,	ES,	FΙ,	FR,	GB,	GR,	HU,	ΙE,	ΙΤ,	LU,	MC,	ΝL,	PL,	PT,	RO,	SE,	
		SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,	
			TD,															
AU	2004	2758	42		A1		2005	0407		AU 2	004-	2758	42		2	0040	924	
CA	AU 2004275842 AC CA 2537812 AC						2005	0407		CA 2	004-	2537	812		2	0040	924	
EP	1673	085			A2		2006	0628		EP 2	004-	7890	57		2	0040	924	
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
							RO,											HR
JP	2007											•						
US	2007	0054	928		A1		2007	0308		US 2	006-	5867	51		2	0061	026	
	2007																	
US	2007	0244	116		A1		2007	1018		US 2	007-	7535	03		2	0070	524	
PRIORIT												5061						
												5353				0040		
												5773			P 2			
												US31			w 2			
												5733			B1 2			
												5867			A1 2			
OTHER S	OURCE	(S):			MARI	PAT	142:	3738					-	•				

GΙ

$$\begin{array}{c}
R^1 \\
N \\
A^1 \\
Z-Ar
\end{array}$$

AΒ The present invention provides compds. (shown as I; variables defined below; e.g. N-[4-[[7-[[2-(diethylamino)ethyl]oxy]-6-(methyloxy)quinolin-4yl]oxy]-3-fluorophenyl]-N'-(4-fluorophenyl)cyclopropane-1,1-dicarboxamide (shown as II)) for modulating protein kinase enzymic activity for modulating cellular activities such as proliferation, differentiation, programmed cell death, migration and chemoinvasion. More specifically, the invention provides quinazolines and quinolines which inhibit, regulate and/or modulate kinase receptors, particularly c-Met, KDR, c-Kit, flt-3 and flt-4, signal transduction pathways related to the changes in cellular activities as mentioned above, compns. which contain these compds., and methods of using them to treat kinase-dependent diseases and conditions. The present invention also provides methods for making compds. as mentioned above, and compns. which contain these compds. For I: R1 = H, halogen, OR3, NO2, NH2, NR3R4, and (un) substituted lower alkyl; A1 = :N-, $:C(H)^{-}$, and $:C(CN)^{-}$; $Z = -S(O)^{-}$, $-O^{-}$, and $-NR5^{-}$; Ar is aryl or heteroaryl; D = -0-, -S(0)0-2-, and -NR15-; R50 = R3 or bicyclic radical; addnl. details are given in the claims. Methods of preparation are claimed and .apprx.80 example prepns. of I and intermediates are included. For example, II was prepared (34 %) from 2-(diethylamino)ethanol and cyclopropane-1,1-dicarboxylic acid N-[3-fluoro-4-[(7-hydroxy-6methoxyquinolin-4-yl)oxy]phenyl]amide N-(4-fluorophenyl)amide, which wasprepared (89 %) by deprotection of cyclopropane-1,1-dicarboxylic acid N-[4-[(7-benzyloxy-6-methoxyquinolin-4-y1)oxy]-3-fluorophenyl]amideN-(4-fluorophenyl)amide, which was prepared (48 %) from trifluoromethanesulfonic acid 7-benzyloxy-6-methoxyquinolin-4-yl ester and cyclopropane-1,1-dicarboxylic acid N-(3-fluoro-4-hydroxyphenyl)amide N-(4-fluorophenyl) amide, which was prepared (85 %) by deprotection of cyclopropane-1,1-dicarboxylic acid N-(4-benzyloxy-3-fluorophenyl)amide N-(4-fluorophenyl) amide, which was prepared (98 %) from (4-benzyloxy-3fluorophenyl)amine and 1-(4-fluorophenylcarbamoyl)cyclopropanecarboxylic

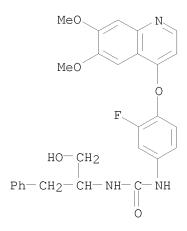
CN

acid; addnl. details are given in the examples.
IT 849218-99-1P, 1-[4-[[6,7-Bis(methyloxy)quinolin-4-yl]oxy]-3fluorophenyl]-3-[2-hydroxy-1-(phenylmethyl)ethyl]urea
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(drug candidate; preparation of quinolines and quinazolines as inhibitors of c-Met and other tyrosine kinases and therapeutic uses against proliferative diseases)

RN 849218-99-1 CA

Urea, N-[4-[(6,7-dimethoxy-4-quinoliny1)oxy]-3-fluoropheny1]-N'-[1-(hydroxymethy1)-2-phenylethy1]- (CA INDEX NAME)



L5 ANSWER 28 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 142:211793 CA

TITLE: KRN633: A selective inhibitor of vascular endothelial

growth factor receptor-2 tyrosine kinase that

suppresses tumor angiogenesis and growth

AUTHOR(S): Nakamura, Kazuhide; Yamamoto, Atsushi; Kamishohara,

Masaru; Takahashi, Kazumi; Taguchi, Eri; Miura, Toru;

Kubo, Kazuo; Shibuya, Masabumi; Isoe, Toshiyuki

CORPORATE SOURCE: Pharmaceutical Development Laboratories, Kirin Brewery

Co. Ltd., Takasaki, Gunma, Japan

SOURCE: Molecular Cancer Therapeutics (2004), 3(12), 1639-1649

CODEN: MCTOCF; ISSN: 1535-7163

PUBLISHER: American Association for Cancer Research

DOCUMENT TYPE: Journal LANGUAGE: English

AB Vascular endothelial growth factor (VEGF) and its receptor VEGFR-2 play a central role in angiogenesis, which is necessary for solid tumors to expand and metastasize. Specific inhibitors of VEGFR-2 tyrosine kinase are therefore thought to be useful for treating cancer. The authors showed that the quinazoline urea derivative KRN633 inhibited tyrosine phosphorylation of VEGFR-2 (IC50 = 1.16 nmol/L) in human umbilical vein endothelial cells. Selectivity profiling with recombinant tyrosine kinases showed that KRN633 was highly selective for VEGFR-1, -2, and -3. KRN633 also blocked the activation of mitogen-activated protein kinases by VEGF, along with human umbilical vein endothelial cell proliferation and tube formation. The propagation of various cancer cell lines in vitro was

not inhibited by KRN633. However, p.o. administration of KRN633 inhibited tumor growth in several in vivo tumor xenograft models with diverse tissue origins, including lung, colon, and prostate, in athymic mice and rats. KRN633 also caused the regression of some well-established tumors and those that had regrown after the cessation of treatment. In these models, the trough serum concentration of KRN633 had a more significant effect than the maximum serum concentration on antitumor activity. KRN633 was well tolerated

and

had no significant effects on body weight or the general health of the animals. Histol. anal. of tumor xenografts treated with KRN633 revealed a reduction in the number of endothelial cells in nonnecrotic areas and a decrease

in vascular permeability. These data suggest that KRN633 might be useful in the treatment of solid tumors and other diseases that depend on pathol. angiogenesis.

286370-15-8, KRN633 ТТ

RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (KRN633, a selective inhibitor of vascular endothelial growth factor receptor-2 tyrosine kinase that suppresses tumor angiogenesis and growth)

RN 286370-15-8 CA

CN Urea, N-[2-chloro-4-[(6,7-dimethoxy-4-quinazolinyl)oxy]phenyl]-N'-propyl-(CA INDEX NAME)

REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 29 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 141:427993 CA

TITLE: Polymorphous crystal of 4-(3-chloro-4-

> (cyclopropylaminocarbonyl)aminophenoxy)-7-methoxy-6qunolinecarboxamide and method for preparation thereof Arimoto, Itaru; Yoshizawa, Kazuhiro; Kamada, Atsushi

PATENT ASSIGNEE(S):

Eisai Co., Ltd., Japan PCT Int. Appl., 79 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

INVENTOR(S):

PATENT INFORMATION:

	PA]	ENT 1	7O.			KIN	D	DATE			APPL	ICAT	ION 1	NO.		D.	ATE	
	WO	2004	1015	 26		A1	_	2004	1125	•	WO 2	004-	JP57	 88		2	0040	422
		W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	KΖ,	LC,
			LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NA,	NI,
			NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
			ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
		RW:	BW,	GH,	GM,	KΕ,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,
			BY,	KG,	KΖ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,
			ES,	FI,	FR,	GB,	GR,	HU,	IE,	ΙΤ,	LU,	MC,	NL,	PL,	PT,	RO,	SE,	SI,
			SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,
			TD,	ΤG														
	US	2007	0117	842		A1		2007	0524		US 2	006-	5539.	27		2	0060	630
PRIO	IORITY APPLN. INFO.:			.:						US 2	003-	4646	74P		P 2	0030	422	
										•	WO 2	004-	JP57	88	•	W 2	0040	422
		_											_	_				

- AB Disclosed are a polymorphous crystal (A) of 4-(3-chloro-4-(cyclopropylaminocarbonyl)) aminophenoxy)-7-methoxy-6-qunolinecarboxamide (I) having a diffraction peak at a diffraction angle ($2\theta \pm 0.2^{\circ}$) of 15.75° in the powder X-ray diffractometry; and a polymorphous crystal (B) of I having a diffraction peak at a diffraction angle ($2\theta \pm 0.2^{\circ}$) of 21.75° in the powder X-ray diffractometry.
- IT 417716-92-8P

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PRP (Properties); PUR (Purification or recovery); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of 4-(3-chloro-4-(cyclopropylaminocarbonyl)aminophenoxy)-7-methoxy-6-qunolinecarboxamide polymorphous crystals)

- RN 417716-92-8 CA
- CN 6-Quinolinecarboxamide, 4-[3-chloro-4-[[(cyclopropylamino)carbonyl]amino]p henoxy]-7-methoxy- (CA INDEX NAME)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 30 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 141:420610 CA

TITLE: Surface receptor complexes as biomarkers of disease

and for determination of treatment with dimer-acting

drugs

INVENTOR(S): Chan-Hui, Po-Ying; Dua, Rajiv; Mukherjee, Ali;

Pidaparthi, Sailaja; Salimi-Moosavi, Hossein; Shi,

Yining; Singh, Sharat

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 67 pp., Cont.-in-part of U.S.

Ser. No. 623,057.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 32

PA 	TENT	NO.			KINI		DATE			APPI	JICAT	ION	ΝΟ.		D.	ATE	
US	2004	0229	 293		A1		2004	1118		US 2	2004-	8126	 19		2	0040	330
US	2003	0013	126		A1		2003	0116			2002-					0020	521
US	7255	999			В2		2007	0814									
US	2004	0126	818		A1		2004	0701		US 2	2003-	6230	57		2	0030	717
US	7105	308			В2		2006	0912									
	2004		835		A1		2004	1007		US 2	2004-	8305	43		2	0040	422
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	2004				A1		2005				2004-					0040	
_	2535	-			A1		2005				2004-						
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EP	1673		,		A2		2006	0628		EP 2	2004-	7807	31		2	0040	810
	R:	AT,	BE,	CH,	DE,	DK,					IT,					MC,	PT,
											HU,			•	·	•	ŕ
BR	2004	0134	71	•	A		2006	1017	•	BR 2	2004-	1347	1		2	0040	810
JP	2007	5024								JP 2	2006-	5233	11		2	0040	810
PRIORIT	Y APP	LN.	INFO	.:						US 2	2002-	1540	42		A2 2	0020	521
											2002-				P 2	0020	725
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										US 2	2003-	6230	57			0030	
										US 2	2003-	4944	82P		P 2	0030	
										US 2	2003-	5080	34P		P 2	0031	
										US 2	2003- 2003- 2003- 2003-	5129	41P		P 2	0031	
										US 2	2003-	5232	58P		P 2	0031	T T 8

US 2001-292548P P 20010521 US 2001-334901P P 20011024 WO 2004-US25945 W 20040810

AB The invention is directed to a new class of biomarker in patient samples comprising dimers of cell surface membrane receptors. In one aspect, the invention includes a method of determining the status of a disease or healthful condition by correlating such condition to amts. of one or more dimers of cell surface membrane receptors measured directly in a patient sample, in particular a fixed tissue sample. In another aspect, the invention includes a method of determining a status of a cancer in a specimen from an individual by correlating measurements of amts. of one or more dimers of cell surface membrane receptors in cells of the specimen to such status, including presence or absence of a pre-cancerous state, presence or absence of a cancerous state, prognosis of a cancer, or responsiveness to treatment. Preferably, methods of the invention are implemented by using sets of binding compds. having releasable mol. tags that are specific for multiple components of one or more types of receptor dimers. After binding, mol. tags are released and separated from the assay mixture for anal. 286370-15-8, KRN633 ΤT

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(surface receptor complexes as biomarkers of disease or responsiveness to treatment)

RN 286370-15-8 CA

CN Urea, N-[2-chloro-4-[(6,7-dimethoxy-4-quinazolinyl)oxy]phenyl]-N'-propyl-(CA INDEX NAME)

L5 ANSWER 31 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 141:361107 CA

TITLE: Methods for the detection of cell surface receptor

complexes as cancer biomarkers and therapeutic

effectiveness of cleavage thereof

INVENTOR(S): Chan-Hui, Po-Ying; Salimi-Moosavi, Hossein; Shi,

Yining; Singh, Sharat; Dua, Rajiv; Mukherjee, Ali;

Pidaparthi, Sailaja

PATENT ASSIGNEE(S): Aclara Biosciences, Inc., USA

SOURCE: PCT Int. Appl., 106 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 32

	PAI	CENT	NO.			KIN		DATE			APPL	ICAT	ION 1	NO.		D.	ATE	
		2004				A2 A3	_	2004 2005	1028		WO 2	004-	US97	 17		2	0040	330
		W:	ΑE,					ΑU,										
			CN,					DE,				•						•
			GE,					ID,									KΖ,	
								LV,								MZ,	NA,	NI,
								PL,							SG,	SK,	SL,	SY,
			ΤJ,		TN,			TZ,							YU,	ZA,	ZM,	ZW
		RW:						MW,								ZW,	•	
								ТJ,										
			SK,					HU, CG,										•
			TD,	TG	Dr,	Бυ,	Cr,								ти,	rin,	NE,	DIV,
		2004		818		A1		2004			US 2	003-	6230	57		2	0030	717
		7105				B2		2006			^		0000			_		
		2004		00		A1		2004				004-					0040.	
		2521				A1		2004				004-					0040.	
	ĽР	1613 R:		DE	СП	A2	DK	2006 ES,				004-			NIT		0040.	
		κ.						RO,										•
	BR	2004			шт,	д , А	ι .,	2006				004-		C4,	шш,		0040	
		1829		50		A		2006				004-		5245			0040	
		2006		21		Τ		2006				006-					0040	
		2004				A1		2005				004-				2	0040	810
	CA	2535	510			A1		2005	0303		CA 2	004-	2535	510		2	0040	810
	WO	2005	0194	70		A2		2005	0303		WO 2	004-	US25	945		2	0040	810
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		W:						AU,										
								DE,										
			GE,	•	•			ID,				JP,						
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				•				RU,							•	,	DE,	,
								GR,									RO,	SE,
			SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,
				TD,	ΤG													
	ΕP	1673				A2		2006									0040	
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	DD	2004			гт,	κο, A	CI,	TR, 2006				004-				2	0040	010
		2004				T		2007				004-					0040	-
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11(101)				1111	• •							003-					0030	
												003-					0030	
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												003-				P 2	0031	020
												003-					0031	
												002-					0020	
											wu 2	004-	059/	Ι/		W 2	0040	33U

WO 2004-US25945 W 20040810

The invention is directed to a new class of biomarker in patient samples AB comprising dimers of cell surface membrane receptors. In one aspect, the invention includes a method of determining the status of a disease or healthful condition by correlating such condition to amts. of one or more dimers of cell surface membrane receptors measured directly in a patient sample, in particular a fixed tissue sample. In another aspect, the invention includes a method of determining a status of a cancer in a specimen from an individual by correlating measurements of amts. of one or more dimers of cell surface membrane receptors in cells of the specimen to such status, including presence or absence of a pre-cancerous state, presence or absence of a cancerous state, prognosis of a cancer, or responsiveness to treatment. Preferably, methods of the invention are implemented by using sets of binding compds. having releasable mol. tags that are specific for multiple components of one or more types of receptor dimers. After binding, mol. tags are release and separated from the assay mixture for anal. 286370-15-8, KRN633 TΤ

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(methods for detection of cell surface receptor complexes as cancer biomarkers and therapeutic effectiveness of cleavage thereof)

RN 286370-15-8 CA

CN Urea, N-[2-chloro-4-[(6,7-dimethoxy-4-quinazolinyl)oxy]phenyl]-N'-propyl-(CA INDEX NAME)

L5 ANSWER 32 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 141:289013 CA

TITLE: c-Kit kinase inhibitor

INVENTOR(S): Yamamoto, Yuji; Watanabe, Tatsuo; Okada, Masayuki;

Tsuruoka, Akihiko

PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan SOURCE: PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

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                               _____
                                         WO 2004-JP3087
    WO 2004080462
                        A1 20040923
                                                                  20040310
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
            CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
            GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
            LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
            NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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            TD, TG
                                           US 2004-797903
    US 20040253205
                               20041216
                         Α1
                                                                  20040310
    EP 1604665
                               20051214
                                           EP 2004-719054
                                                                  20040310
                         Α1
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PRIORITY APPLN. INFO.:
                                           JP 2003-62823
                                                            A 20030310
                                                               A 20030827
                                           JP 2003-302803
                                                              W 20040310
                                           WO 2004-JP3087
OTHER SOURCE(S):
                        MARPAT 141:289013
GΙ
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$$R^2$$
 R^2
 R^3
 R^3

henoxy]-7-methoxy- (CA INDEX NAME)

Ι

It is found out that a compound represented by the following general formula

AB

9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 33 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 140:406748 CA

TITLE: Preparation of quinoline derivatives and quinazoline

derivatives inhibiting autophosphorylation of Flt3 and

medicinal compositions containing the same

INVENTOR(S): Hirai, Hisamaru; Miwa, Atsushi; Yoshino, Tetsuya;

Kurokawa, Mineo

Kirin Beer Kabushiki Kaisha, Japan; Hirai, Naoko PATENT ASSIGNEE(S):

SOURCE: PCT Int. Appl., 118 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PA:	TENT	NO.			KIND DATE A1 2004051					APPL	ICAT	ION :	NO.		D.	ATE	
WO	2004	0397	 82		A1		2004	0513		 WO 2	003-	 JP13	848		2	0031	029
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		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FΙ,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	KP,	KR,	KΖ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	ΝI,	NO,	NZ,	OM,
		PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	ΤJ,	TM,	TN,
		TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW			
	RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,
		KG,	KΖ,	MD,	RU,	ΤJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
		FΙ,	FR,	GB,	GR,	HU,	ΙE,	ΙΤ,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,
		BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG
ΑU	2003	2805	99		A1		2004	0525		AU 2	003-	2805	99		2	0031	029
EP	1566	379			A1		2005	0824		EP 2	003-	7699	58		2	0031	029
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		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK	

PRIORITY APPLN. INFO.:

JP 2002-314670 A 20021029 WO 2003-JP13848 W 20031029

OTHER SOURCE(S):

MARPAT 140:406748

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GΙ

AΒ Disclosed is a medicinal composition to be used in preventing or treating diseases which can be effectively treated or prevented by inhibiting autophosphorylation of Flt3, comprising a compound represented by the following general formula (I) or pharmaceutically acceptable salts thereof or solvates of the same [wherein X = CH, N; Z = O, S; R1, R2, R3 = H, OH, halo, NO2, cyano, CHO, or each optionally substituted NH2, C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, C1-6 alkoxy, C1-4 alkyl-carbonyl, or CONH2; R4 = H; R5 = R6 = R7 = R8 = H, or 1 or 2 number of R5-R8 = halo, C1-4 alkyl, C1-4 alkoxy, NO2, NH2, OH and all the others = H; R9 = (a) saturated 3- to 9-membered carbocyclyl optionally substituted by 1-3 number of C1-4 alkyl or (b) C1-4 alkyl substituted by C1-4 alkoxy, 5- or 6-membered heterocyclyl, each (un) substituted saturated 3- to 9-membered carbocyclyl, iso-Pr, tert-Bu, or NH2]. The diseases which can be effectively treated by inhibiting autophosphorylation of Flt3 include hematopoietic malignant tumor, in particular acute myelocytic leukemia or bone marrow neoplastic abnormality syndrome. Thus, 2 g 4-[(6,7-dimethoxy-4-quinolinyl)oxy]aniline was dissolved in 100 mL CHCl3, treated dropwise with a solution of 2 mL Et3N and 1 q triphosqene in 4 mL CHCl3, stirred at room temperature for 30 min, treated with 750 mg 3,3-dimethylbutylamine, and stirred at room temperature for 5 h to give, after workup and silica gel chromatog., N-[4-[(6,7-dimethoxy-4quinoliny1)oxy]pheny1]-N'-(3,3-dimethylbuty1)urea (II). II.HCl and N-[4-[(6,7-dimethoxy-4-quinoliny1)oxy]-3-fluoropheny1]-N'-(3,3dimethylbutyl)urea hydrochloride showed IC50 of 2 and <1 nM, resp., for inhibiting the autophosphorylation of MV4-11 human leukemia cell. 190727-31-2P ΤT

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of quinoline and quinazoline derivs. as inhibitors of autophosphorylation of FMS-like tyrosine kinase 3 (Flt3) for treatment or preparation of hematopoietic malignant tumor)

RN 190727-31-2 CA

CN Urea, N-[4-[(6,7-dimethoxy-4-quinoliny1)oxy]phenyl]-N'-propyl- (CA INDEX NAME)

10/510,961

L5 ANSWER 34 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 139:381385 CA

Preparation of quinoline derivatives as inhibitors of TITLE:

autophosphorylation of macrophage colony stimulating

factor receptor

Kubo, Kazuo; Ohno, Hiroaki; Isoe, Toshiyuki; INVENTOR(S):

Nishitoba, Tuyoshi

PATENT ASSIGNEE(S): Kirin Beer Kabushiki Kaisha, Japan

SOURCE: PCT Int. Appl., 174 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

P	PATENT NO.					KINI)	DATE		1	APPL	ICAT:	ION I	. OV		Di	ATE	
W	0	20030	9323	38		A1	_	2003	1113	1	WO 2	003-	JP55!	93		2	0030	501
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			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FΙ,	GB,	GD,	GE,	GH,
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	KΖ,	LC,	LK,	LR,
			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NΙ,	NO,	NZ,	OM,
			PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TN,	TR,
			TT,	TZ,	UA,	UG,	US,	UΖ,	VC,	VN,	YU,	ZA,	ZM,	ZW				
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			KG,	KΖ,	MD,	RU,	ΤJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
			FI,	FR,	GB,	GR,	HU,	ΙE,	ΙΤ,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,
			BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG
Α	U.	20032	23583	38		A1		2003	1117		AU 2	003-	23583	38		2	0030	501
El	Ρ	15359	910			A1		2005	0601		EP 2	003-	7210	22		2	0030	501
		R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙΤ,	LI,	LU,	NL,	SE,	MC,	PT,
			ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK	
U:	S.	20060	2350	033		A1		2006	1019	1	US 2	005-	5109	61		2	0050	711
PRIORI:	US 20060235033 RITY APPLN. INFO.:				.:					ı	JP 2	002-	1300	49	Ž	A 2	0020	501
										1	WO 2	003-	JP55	93	Ī	W 2	0030	501
OTHER S	SO	URCE	(S):			MARI	PAT	139:	38138	35								

GI

AB The title compds. I [wherein X = CH or N; Z = O or S; R1-R3 = independently H, halo, CN, alkyl, alkoxy, alkenyl, alkynyl, NO2, (un)substituted amino, hydroxy, CONH2, CO2H, or H2NCO2-, etc.; R4 = H; R5-R8 = independently H, halo, alkyl, alkoxy, alkylthio, CF3, NO2, or amino; R9 and R10 = independently H, alkyl, or alkylcarbonyl; R11 and R12 = independently H or alkyl, etc.; R13 = (hetero)cyclyl, etc.] and pharmaceutically acceptable salts or solvates thereof are prepared as inhibitors of the autophosphorylation of macrophage colony stimulating factor receptor. For example, 4-[(6,7-dimethoxy-4-quinolyl)oxy]aniline was treated with triphosgene in CHC13 in the presence of Et3N, followed by the addition of 1-(4-fluorophenyl)ethylamine to give the urea compound II (8%). II showed IC50 of 0.0024 μ M against autophosphorylation of c-fms tyrosine kinase in cow.

IT 623142-25-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of quinoline derivs. as inhibitors of autophosphorylation of macrophage colony stimulating factor receptor)

RN 623142-25-6 CA

CN Urea, N-[4-[(6,7-dimethoxy-4-quinolinyl)oxy]phenyl]-N'-[1-(4-fluorophenyl)ethyl]- (CA INDEX NAME)

PAGE 1-A

PAGE 2-A



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 35 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 139:240339 CA

TITLE: Antitumor agent comprising combination of

sulfonamide-containing heterocyclic compound with

angiogenesis inhibitor

INVENTOR(S): Wakabayashi, Toshiaki; Ono, Naoto; Semba, Taro;

Haneda, Toru

PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan SOURCE: PCT Int. Appl., 49 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PA 	TENT	NO.			KIN	D	DATE			APPL:	ICAT	ION I	.00		D.	ATE	
WO	2003	0740	45		A1		2003	0912		WO 2	003-	JP24	92		2	0030	304
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		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	KΖ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,
		PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	ΤJ,	TM,	TN,	TR,	TT,	TZ,
		UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW						
	RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,
		KG,	KΖ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
		FI,	FR,	GB,	GR,	HU,	IE,	ΙΤ,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,
		BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	ΤG
AU	2003	2115	94		A1		2003	0916		AU 2	003-	2115	94		2	0030	304
EP	1481	678			A1		2004	1201		EP 2	003-	7435	94		2	0030	304
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙΤ,	LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	LT,	LV,	FΙ,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK	
US	2005	0119	303		A1		2005	0602		US 2	004-	5046	76		2	0040	813
PRIORIT	RIORITY APPLN. INFO.:									JP 2	002-	5947	1	i	A 2	0020	305
										WO 2	003-	JP24	92	Ţ	w 2	0030	304
OTHER S GI	OURCE	(S):			MAR:	PAT	139:	24033	39								

NC
$$SO_2NH$$
 Me HN CN

AB It is intended to provide compns. and kits for treating tumor whereby the angiogenesis inhibitory activity and the antitumor activity of a sulfonamide-containing heterocyclic compound represented by the following formula (I) can be more effectively exerted. By combining with a VEGF inhibitor or an FGF inhibitor, the sulfonamide-containing heterocyclic compound can be effectively employed in treating cancer.

286370-15-8, KRN 633 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(antitumor agent comprising combination of sulfonamide-containing heterocyclic compound with angiogenesis inhibitora)

RN 286370-15-8 CA

CN Urea, N-[2-chloro-4-[(6,7-dimethoxy-4-quinazolinyl)oxy]phenyl]-N'-propyl-(CA INDEX NAME)

ΙT

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 36 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 138:338162 CA

TITLE: Preparation of quinoline or quinazoline derivatives

inhibiting auto-phosphorylation of fibroblast growth

factor receptors

INVENTOR(S): Miwa, Atsushi; Yoshino, Tetsuya; Osawa, Tatsushi;

Sakai, Teruyuki; Shimizu, Toshiyuki; Fujiwara,

Yasunari

PATENT ASSIGNEE(S): Kirin Beer Kabushiki Kaisha, Japan

SOURCE: PCT Int. Appl., 264 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PA	TENT :	NO.			KIN	D	DATE		i	APPL	ICAT	ION I	. OV		Di	ATE	
WO	2003	0334	 72		A1	_	 2003	0424	1	WO 2	002-	JP10:	 803		2	0021	017
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		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,
		PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ΤJ,	TM,	TN,	TR,	TT,	TZ,
		UA,	UG,	US,	UΖ,	VC,	VN,	YU,	ZA,	ZM,	ZW						
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		KG,	KΖ,	MD,	RU,	ΤJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
		FΙ,	FR,	GB,	GR,	ΙE,	ΙΤ,	LU,	MC,	NL,	PT,	SE,	SK,	TR,	BF,	ВJ,	CF,
		CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG			
AU	2002	3439	97		A1		2003	0428		AU 2	002-	3439	97		2	0021	017
EP	1447	405			A1		2004	0818		EP 2	002-	7753	65		2	0021	017
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙΤ,	LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	LT,	LV,	FΙ,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	SK		
US	2005	0049	264		A1		2005	0303	1	US 2	004-	49189	98		2	0040	920
PRIORIT	Y APP	LN.	INFO	.:						JP 2	001-	3198	26	i	A 2	0011	017
										JP 2	002-	1676	52	i	A 2	0020	607

WO 2002-JP10803 W 20021017

MARPAT 138:338162 OTHER SOURCE(S):

Ι

GΙ

The invention provides novel compds. represented by the general formula AB (I) or pharmaceutically acceptable salts or solvates thereof [wherein X =CH, N; Z = O, S; Q = R10, CR11R12, CO, O, S(O)m (wherein m is 0 to 2), NHCONH (wherein R10 = H, C1-10 alkyl; R11, R12 = H, C1-6 alkylcarbonyloxy); R1, R2, R3 = H, OH, halogeno, nitro, amino, C1-6 alkyl or alkoxy or C2-6 alkenyl or alkynyl like (with the proviso that the alkyl and the alkoxy may be further substituted); R4 = H; R5, R6, R7, R8 = H, halogeno, C1-4 alkyl or alkoxy; R9 = C1-10 alkyl, (un)saturated 3- to 8-membered carbocyclic or heterocyclic group which may be substituted]. These compds. exhibit an inhibitory activity against autophosphorylation of fibroblast growth factor receptor (FGFR) family, in particular FGFR2 (Bek), can inhibit the proliferation of cancer cells through oral or i.v. administration, and are useful for the treatment of malignant tumors such as stomach cancer, brain tumor, large intestine cancer, pancreatic carcinoma, lung cancer, kidney cancer, ovarian cancer, and prostate cancer. Thus, 103 mg 1-(3,3-dimethylbutyl)-3-[2-fluoro-4-(7-hydroxy-6methoxyquinolin-4-yloxy)phenyl]urea (preparation given), 166 mg K2CO3, and 69 mg 4-(2-chloroethy1)morpholine hydrochloride were stirred in 2 mL DMF at $75-80^{\circ}$ for 16 h to give 37% 1-(3,3-dimethylbutyl)-3-[2-fluoro-4-[6methoxy-7-(2-morpholin-4-ylethoxy)quinolin-4-yloxy]phenyl]urea (II). II and 1-(3,3-dimethylbutyl)-3-[2-chloro-4-[6-methoxy-7-[2-(2,6-methoxy-7-[2-(2-(2,6-methoxy-7-[2-(2,6-methoxy-7-[2-(2-(2,6-methoxy-7-[2-(2-(2,6-methoxy-7-[2-(2-(2,6-methoxy-7-[2-(2-(2,6-methoxy-7-[2-(2-(2,6-methoxy-7-[2-(2-(2,6-methoxy-7-[2-(2-(2,6-methoxy-7-[2-(2-(2,6-methoxy-7-[2-(2-(2,6-methox)-2dimethylmorpholin-4-yl)ethoxy]quinolin-4-yloxy]phenyl]urea showed IC50 of <0.0100 and $0.0094~\mu\text{M}$, resp., for inhibiting the autophosphorylation of Bek prepared from human Scirrhous stomach cancer OCUM-2MD3.

190727-67-4P ΙT

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(preparation of quinoline or quinazoline derivs. inhibiting auto-phosphorylation of fibroblast growth factor receptors as antitumor agents)

RN 190727-67-4

Urea, N-cyclohexyl-N'-[4-[(6,7-dimethoxy-4-quinolinyl)oxy]phenyl]- (CA CN INDEX NAME)

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 37 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 138:137320 CA

TITLE: Process for preparation of form-I crystals of

N-[2-chloro-4-[(6,7-dimethoxy-4-

quinazolinyl)oxy]phenyl]-N'-propylurea

INVENTOR(S): Nakajima, Tatsuo; Matsunaga, Naoki
PATENT ASSIGNEE(S): Kirin Beer Kabushiki Kaisha, Japan

SOURCE: PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PA'	TENT :	NO.			KIN	D	DATE			APPL	ICAT	ION I	.OV		D	ATE	
WO	2003	0083	88		A1		2003	0130	,	WO 2	002-	JP73	64		2	0020	719
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		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	KΖ,	LC,	LK,	LR,
		LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,		
		RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ΤJ,	TM,	TN,	TR,	TT,	TZ,		
	PL, PT, R UA, UG, U					VN,	YU,	ZA,	ZM,	ZW							
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		CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FΙ,	FR,	GB,	GR,	ΙE,	ΙΤ,	LU,	MC,	NL,
		PT,	SE,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,
	NE, SN, TI																
AU	2002	05		A1		2003	0303		AU 2	002-	3186	05		2	0020	719	
PRIORIT	RIORITY APPLN. INFO.:									JP 2	001-	2197	70	Ž	A 2	0010	719
									,	WO 2	002-	JP73	64	Ī	w 2	0020	719

CASREACT 138:137320 OTHER SOURCE(S):

This invention pertains to prepn method of N-[2-chloro-4-[(6,7-dimethoxy-4-(6,7-dimethox)-4-(6,7-dimethox)quinazolinyl)oxy]phenyl]-N'-propylurea and its form-I crystals, which are suitable for use in preparing a medicine. For example, the title urea was prepared in a 4-step synthesis starting from 2-amino-4,5-dimethoxybenzoic acid Me ester in good yield. Form-I crystals of the title urea was prepared by crystallization from the combination of an aprotic polar solvent, such as

DMF, and MeOH.

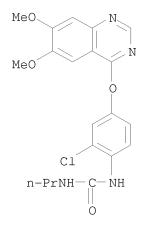
286370-15-8P ΙT

> RL: IMF (Industrial manufacture); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)

(preparation of [(dimethoxyquinazolinyloxy)phenyl](propyl)urea)

RN 286370-15-8 CA

Urea, N-[2-chloro-4-[(6,7-dimethoxy-4-quinazolinyl)oxy]phenyl]-N'-propyl-CN (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 38 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 137:109061 CA

TITLE:

One-pot preparation of asymmetric ureas

INVENTOR(S): Maruo, Masafumi; Saito, Kenji; Soejima, Tadashi; Yoda,

Josuke; Yoshida, Tetsu; Nakajima, Tatsuo

Sumika Fine Chemicals Co., Ltd., Japan; Sankyo Kasei PATENT ASSIGNEE(S):

Kogyo K. K.; Kirin Brewery Co., Ltd.

Jpn. Kokai Tokkyo Koho, 7 pp. SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 2002212160 20020731 JP 2001-6945 20010115 PRIORITY APPLN. INFO.: JP 2001-6945 20010115

CASREACT 137:109061; MARPAT 137:109061 OTHER SOURCE(S):

ArNHCONR1R2 [Ar = (un)substituted aryl, (un)substituted aromatic

heterocyclyl; R1 = (un)substituted C1-12 alkyl, C7-12 aralkyl, aromatic heterocyclyl, (un)substituted aryl; R2 = H, (un)substituted C1-12 alkyl; R1R2N may form ring] are prepared by addition of pyridine-type bases and either ArNH2 (Ar = same as above) or NHR2R2 = (R1, R2 = same as above) to solvents, treating the mixts. with C1CO2Ph, and further treating with the other amines. Thus, C1CO2Ph was dropwise added to a mixture of THF, 2-aminopyridine, and pyridine at $20-30^{\circ}$ over 70 min. Then, 1-propylamine was dropwise added to the reaction mixture at $20-30^{\circ}$ over 1 h to give 83.5% 1-(2-pyridyl)-3-propylurea.

IT 286370-15-8P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(one-pot preparation of asym. ureas)

RN 286370-15-8 CA

CN Urea, N-[2-chloro-4-[(6,7-dimethoxy-4-quinazolinyl)oxy]phenyl]-N'-propyl-(CA INDEX NAME)

L5 ANSWER 39 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 136:340689 CA

TITLE: Preparation of urea derivatives containing nitrogenous

aromatic ring compounds as inhibitors of angiogenesis INVENTOR(S):

Funahashi, Yasuhiro; Tsuruoka, Akihiko; Matsukura,

Magazukii, Hanada, Tanut, Fukuda, Yashio, Kamata

Masayuki; Haneda, Toru; Fukuda, Yoshio; Kamata, Junichi; Takahashi, Keiko; Matsushima, Tomohiro; Miyazaki, Kazuki; Nomoto, Kenichi; Watanabe, Tatsuo; Obaishi, Hiroshi; Yamaguchi, Atsumi; Suzuki, Sachi; Nakamura, Katsuji; Mimura, Fusayo; Yamamoto, Yuji; Matsui, Junji; Matsui, Kenji; Yoshiba, Takako; Suzuki,

Yasuvuki; Arimoto, Itaru

PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan SOURCE: PCT Int. Appl., 699 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

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WO 2002032872 A1 20020425 WO 2001-JP9221 20011019
                 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
                         CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
                         GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
                         LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
                         PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
                         US, UZ, VN, YU, ZA, ZW
                 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
                         DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
                         BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
         CA 2426461 A1 20020425 CA 2001-2426461 20011019
AU 2001095986 A 20020429 AU 2001-95986 20011019
                                             A2 20031128 HU 2003-2603
A 20040225 CN 2001-819710
         HU 2003002603
                                                                                                                              20011019
                              A 20040225
A1 20040506
B1 20070228
         CN 1478078
                                                                                                                              20011019
         EP 1415987
                                                                              EP 2001-976786
                                                                                                                              20011019
         EP 1415987
                R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
                        IE, FI, CY, TR
                                                            20050216 EP 2004-25700
         EP 1506962
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                                                                                                                              20011019
                                                        20050302
         EP 1506962
                                                АЗ
                R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
                        IE, FI, CY, TR
                                              A 20050324 NZ 2001-525324
B2 20051102 JP 2002-536056
C2 20051120 RU 2003-114740
T 20060315 AT 2001-976786
A1 20070425 EP 2006-23078
                                             А
         JP 3712393
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         AT 355275
                                                                                                                                20011019
                                                                                                                                20011019
         EP 1777218
      R: AT, BE, CH, CY, DE, DR, ES, TT,

NL, PT, SE, TR

CN 101024627 A 20070829 CN 2007-10007096 20011019

CN 101029022 A 20070905 CN 2007-10007097 20011019

ES 2282299 T3 20071016 ES 2001-976786 20011019

NO 2003001731 A 20030619 NO 2003-1731 20030414

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AU 2006236039 A1 200661207 AU 2006-236039 20061116

NO 2007004657 A 20030619 NO 2007-4657 20070912

DRITY APPLN. INFO::

JP 2000-386195 A 20010220

JP 2001-46685 A 20010220

JP 2001-46685 A 20010222

JP 2001-46685 A 20010222
                R: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC,
PRIORITY APPLN. INFO.:

      JP 2001-46685
      A 20010222

      AU 2001-295986
      A3 20011019

      AU 2001-95986
      A3 20011019

      CN 2001-819710
      A3 20011019

      EP 2001-976786
      A3 20011019

      JP 2002-536056
      A3 20011019

      WO 2001-JP9221
      W 20011019

      US 2003-420466
      A3 20030418

      US 2005-293785
      A1 20051202

OTHER SOURCE(S): MARPAT 136:340689
GΙ
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N-aryl or N-heteroarylurea derivs. represented by the general formula AΒ Ag-Xg-Yg-Tg1 or salts thereof, or hydrates of both [wherein Ag =(un) substituted C6-14 aryl or 5- to 14-membered heterocyclic group; Xg = single bond, O, S, C1-6 alkylene, SO, SO2, (un)substituted NH; Yg = (un) substituted C6-14 aryl, 5- to 14-membered heterocyclic group, C1-8 alkyl, C3-8 alicyclic hydrocarbyl, C6-14 aryl-C1-6 alkyl, 5- to 14-membered heteroaryl-C1-6 alkyl, (CH2)gSO2 (g = 1-8), (CH2) faCH: CH(CH2) fb (fa, fb = 0, 1,2,3), etc.; and Tg1 = a group of the general formula -Eg-CO-NRg1(Zg) or Q; wherein Eg = a single bond, (un) substituted NH; Rg1 = H, (un) substituted C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, C3-8 aliphatic hydrocarbyl, etc.; Zg = C1-8 alkyl, C3-8alicyclic hydrocarbyl, C6-14 aryl, etc.; Zg1, Zg2 = (a) a single bond, (b) C1-6 alkylene optionally having ≥1 atoms selected from O, S, and N in the middle or the terminus of the chain and optionally substituted with oxo, (c) (un)substituted C2-6 alkenyl] are prepared These compds. are also inhibitors of vascular endothelial growth factor receptor kinase (VEGFR2 kinase) and are useful as antitumor agents against hemangioma, pancreatic cancer, stomach cancer, colon cancer, breast cancer, prostate cancer, lung cancer, brain tumor, leukemia, or ovarian cancer, as cancer metastasis inhibitors, and for the treatment of retina neovascularization, diabetic retinopathy, atherosclerosis, or inflammatory diseases such as osteoarthritis, rheumatoid arthritis, psoriasis, or delayed hypersensitivity. Thus, to solution of 334 mg 4-[6-(4-benzyloxyphenyl)-7-(2-benzyloxyphenyl)]trimethylsilylethoxymethyl)-7H-pyrrolo[2,3-d]pyrimidin-4-yloxy]-2chlorophenylamine in 4 mL DMF were added 0.066 mL pyridine and 0.102 mL Ph chlorocarbonate and stirred at room temperature for 2.5 h to give 330 mg N-[4-[6-(4-benzyloxyphenyl)-7-(2-trimethylsilylethoxymethyl)-7Hpyrrolo[2,3-d]pyrimidin-4-yloxy]-2-chlorophenyl]-N'-cyclopropylurea which (260 mg) was hydrogenolyzed over platinum oxide in ethanol overnight to give 160 mg N-[4-[6-(4-hydroxyphenyl)-7-(2-trimethylsilylethoxymethyl)-7Hpyrrolo[2,3-d]pyrimidin-4-yloxy]-2-chlorophenyl]-N'-cyclopropylurea (I). I showed IC50 of 0.02 nM for inhibiting the vascular endothelial growth factor (VEGF)-stimulated sandwich tube formation in vascular endothelial cell.

IT 417713-07-6P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of urea derivs. containing nitrogenous aromatic ring compds. as angiogenesis inhibitors for prevention or treatment of diseases)

RN 417713-07-6 CA

CN Urea, N-[4-[[6-cyano-7-(2-methoxyethoxy)-4-quinolinyl]oxy]phenyl]-N'-cyclopropyl- (CA INDEX NAME)

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 40 OF 44 CA COPYRIGHT 2008 ACS on STN

136:134682 CA ACCESSION NUMBER:

Preparation of N-(2-chloro-4-[[6-methoxy-7-(3-TITLE:

pyridylmethoxy)-4-quinolyl]oxy]phenyl)-N'-propylurea

dihydrochloride for antitumor agents

Nakajima, Tatsuo; Kamimasahara, Masaru; Matsunaga, INVENTOR(S):

Naoki

PATENT ASSIGNEE(S): Kirin Brewery Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PRIC AB	JP 2002030083 PRITY APPLN. INFO.: Title compds. (I), rheumatoid arthriti	useful s, psor	for treatmer	JP 2000-217640 JP 2000-217640 at of tumor, diabetic recosclerosis, and Kaposi	etinopathy, 's sarcoma,
IT	propylurea was read presence of K2CO3 in N-[2-chloro-4-[[6-r propylurea, which was give 87% I showing 391894-74-9P RL: PAC (Pharmacological RL)	cted with an DMF and the an	th 3-(chloron at 70° for 4 -7-(3-pyridy) ated with HClatitumor activately; RC	lmethoxy)-4-quinolyl]ox . in MeOH at 5° overnigl	loride in the y]phenyl]-N'- ht to thetic
	(Preparation); RACT	: (React	ant or reage	_ _	

rea for antitumor agents)

RN 391894-74-9 CA

CN Urea, N-[2-chloro-4-[[6-methoxy-7-(3-pyridinylmethoxy)-4-quinolinyl]oxy]phenyl]-N'-propyl-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

L5 ANSWER 41 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 135:92649 CA

TITLE: Preparation of quinazoline and quinoline derivatives

as remedies for diseases mediated by autophosphorylation of PDGF receptors

INVENTOR(S): Sakai, Teruyuki; Senga, Teruhumi; Furuta, Takayuki;

Miwa, Atushi

PATENT ASSIGNEE(S): Kirin Beer Kabushiki Kaisha, Japan

SOURCE: PCT Int. Appl., 1068 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PAT	ΓΕΝΤ	NO.			KIND DATE				-	APPL	ICAT		DATE				
WO 2001047890						_	2001	0705	;	WO 2	000-		20001222				
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		CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,
		HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	KΖ,	LC,	LK,	LR,	LS,	LT,
		LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PL,	PT,	RO,	RU,
		SD,	SE,	E, SG, SI, SK, S		SL,	ΤJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VN,	
		YU,	ZA,	ZW													
	RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	ΑT,	BE,	CH,	CY,
		DE,	DK,	ES,	FΙ,	FR,	GB,	GR,	ΙE,	ΙT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,
		ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GW,	ML,	MR,	ΝE,	SN,	TD,	ΤG		
AU	2001	0222	32		Α		2001	0709		AU 2	001-	2223.	2		20001222		
EP	A1		2002	0925		EP 2	000-	9858	44		20001222						

	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IT,	LI,	LU,	NL,	SE	, MC,	PT,
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US	20040	0132	727		A1		2004	0708		US :	2002-	1683	92		:	20021	025
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US	2006	0211	717		A1		2006	0921		US :	2006-	4324	07		:	20060	512
PRIORITY	APP	LN.	INFO	.:						JP :	1999-	3774	86	1	A :	19991	224
										JP :	1999-	3744	94		A :	19991	228
										JP :	2000-	1777	90	1	A :	20000	614
									,	WO :	2000-	JP91	57	1	N :	20001	222
										US :	2002-	1683	92		A3 :	20021	025
OTHER SO	OURCE	(S):			MARI	PAT	135:	9264	9								

$$R^3$$
 R^4
 R^6
 R^6
 R^6
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 R^6
 R^6

Title compds. [I; X = N, CH; R3, R4, R5, R6 independently = H, Cl, F, CH3, CH3O, NO2; A = 4-CH3C6H4CH2OCONH, 3-ClC6H4CH(CH3)OCONH, 4-FC6H4CH2OCONH, 2-ClC6H4CH(CH3)OCONH, 2-ClC6H4CH2CH2CH2OCONH, 4-CF3C6H4CH2OCONH, CH3(CH2)5OCONH, (CH3CH2)2N(CH2)3NHCSNH, YNHCONH, 4-ClC6H4O(CH2)2S, 4-ClC6H4(CH2)2NH, 3-BrC6H4CONHCSNH, C6H5COO, OH, OCH2COOCH3, OCH2COOH; Y = heterocycle, heterocyclylalkyl] and pharmaceutically acceptable salts are prepared as remedies for diseases mediated by autophosphorylation of PDGF receptors, particularly useful as intimal thickening inhibitors. Thus, the title claimed compound II was prepared and biol. tested.

ΙI

IT 347155-53-7P RL: BAC (Biological activity or effector, except adverse); BSU (Biological CN

study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of quinazolines and quinolines as remedies for diseases mediated by autophosphorylation of PDGF receptors)

RN 347155-53-7 CA

Urea, N-[4-[(6,7-dimethoxy-4-quinazolinyl)oxy]phenyl]-N'-[1-(phenylmethyl)-4-piperidinyl]- (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

CH₂-Ph

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 42 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 135:76901 CA

TITLE: Preparation of quinazoline and quinoline derivatives

as remedies for diseases mediated by autophosphorylation of PDGF receptors

INVENTOR(S): Ueno, Kimihisa; Ogawa, Akira; Ohta, Yoshihisa; Nomoto,

Yuji; Takasaki, Kotaro; Kusaka, Hideaki; Yano,

Hiroshi; Suzuki, Chiharu; Nakanishi, Satoshi

PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan

SOURCE: PCT Int. Appl., 126 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

PATENT INFORMATION:

PAT	CENT :	NO.			KIN	D	DATE			APPL	ICAT	DATE							
WO	2001	 0479	 31 А	1		_	2001	0705	W	D 20	 00-j:	20001222							
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	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FΙ,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,		
	IL,	IN,	IS,	JP,	ΚE,	KG,	KR,	KΖ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,		
	MG, MK, MN, MW, SL, TJ, TM, TR,				MX,	MZ,	NO,	NΖ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,		
					TT,	TZ,	UA,	UG,	US,	UΖ,	VN,	YU,	ZA,	ZW,	AM,	ΑZ,	BY,		
	KG,	KΖ,	MD,	RU,	ТJ,	TM													
RW:	AT,	BE,	BF,	ВJ,	CF,	CG,	CH,	CI,	CM,	CY,	DE,	DK,	ES,	FI,	FR,	GΑ,	GB,		
	GR,	ΙE,	ΙΤ,	LU,	MC,	ML,	MR,	ΝE,	NL,	PT,	SE,	SN,	TD,	TG,	TR				
PRIORITY	APP	LN.	INFO	.:					J	P 99	-366	313			19991224				
OTHER SC	OTHER SOURCE(S):							MARPAT 135:76901											
GT																			

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 V^{4

Title compds. [I; X = N, CH; R3, R4, R5, R6 independently = H, Cl, F, CH3, CH3O, NO2; A = 4-CH3C6H4CH2OCONH, 3-ClC6H4CH(CH3)OCONH, 4-FC6H4CH2OCONH, 2-ClC6H4CH(CH3)OCONH, 2-ClC6H4CH2CH2CH2OCONH, 4-CF3C6H4CH2OCONH, CH3(CH2)5OCONH, (CH3CH2)2N(CH2)3NHCSNH, YNHCONH, 4-ClC6H4O(CH2)2S, 4-ClC6H4(CH2)2NH, 3-BrC6H4CONHCSNH, C6H5COO, OH, OCH2COOCH3, OCH2COOH; Y = heterocycle, heterocyclylalkyl] and pharmaceutically acceptable salts are prepared as remedies for diseases mediated by autophosphorylation of PDGF receptors. Thus, the title claimed compound II was prepared and biol. tested.

II 347155-53-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT

(Reactant or reagent); USES (Uses)

(preparation of quinazolines and quinolines as remedies for diseases mediated by autophosphorylation of PDGF receptors)

RN 347155-53-7 CA

CN Urea, N-[4-[(6,7-dimethoxy-4-quinazolinyl)oxy]phenyl]-N'-[1-(phenylmethyl)-4-piperidinyl]- (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

| CH2-Ph

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 43 OF 44 CA COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 133:135235 CA

TITLE: Preparation and anti-tumor, anti-atherosclerosis,

anti-psoriasis, anti-diabetes, and anti-arthritis

activities of quinolines and quinazolines

INVENTOR(S): Kubo, Kazuo; Fujiwara, Yasunari; Isoe, Toshiyuki

PATENT ASSIGNEE(S): Kirin Beer Kabushiki Kaisha, Japan

SOURCE: PCT Int. Appl., 208 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA'	TENT				KIND DATE					API	PLI	CAT								
WO	2000 W:	0433 AE, CZ, IN, MD,	AL, DE, IS, MG,	AM, DK, JP, MK,	A1 AT, DM, KE, MN,	AU, EE, KG, MW,	2000 AZ, ES,	0727 BA, FI, KR, NO,	BB, GB, KZ, NZ,	B(GI L(PI	G, O, C,	BR, GE, LK, PT,	BY, GH, LR, RO,	CA, GM, LS, RU,	CH, HR, LT, SD,	CN HU LU SE	, CR , ID , LV , SG	0120 , CU, , IL, , MA,		
	RW:	GH, DK,	GM, ES,	KE, FI,	LS, FR,	MW, GB,	SD, GR,	SL, IE,	SZ, IT,	T2	Z, IJ,	UG, MC,	ZW, NL,	AT, PT,	BE,	СН	, CY	, DE, , CF,		
CA BR EP EP	. 2361057 . 2000007656 . 1153920 . 1153920				GA, GN, GW, ML, A1 20000727 A 20011030 A1 20011114 B1 20031029					CA 2000-2361057 BR 2000-7656 EP 2000-900841						20000120 20000120 20000120				
	R:	ΑT,	BE,	CH,		DK,	ES,	FR,									, MC	, PT,		
HU	2001 2001 2001	0209 0051 0051	0 33 33		T2 A2 A3		2002 2002 2002	0729 0930										20000120		
NZ AT EP	2003 5130 2530 1384 1384	06 51 712 712			A T A1 B1		2007	1031 1115 0128 0307		NZ AT EP	20 20 20	000- 000- 003-	5130 9008 2491					0120 0120 0120		
	R:		BE, FI,		DE,	DK,	ES,	FR,	GB,	GI	₹,	IT,	LI,	LU,	NL,	SE	, MC	, PT,		
JP ES RU AT ES TW NO NO MX KR US HK US	7715 3519 2208 2256 3561 2281 2296 2001 3212 2001 7872 6797 1043 2004 7169 2007 Y APP	368 261 654 17 591 67 0026 95 PA07 54 823 792 0209 789 0027	17 251 905 318		C2 T T3 B A		2004 2004 2005 2007	0616 0720 0315 1001 0321 0914 0418 1101 1220 0928 0630 1021 0130		JP ES RU AT ES TW NO MX KRS HK US JP JP JP JP JP JP JP JP JP US	200 200 200 200 200 200 200 200 200 200	000- 000- 001- 003- 000- 001- 001- 001-	5947 9008 1234 2491 2491 8910 2617 PA72 7091 8898 1053	09 39 8 1 93 24 41 82 5		A A A A A W A 3	2002 2004 2006 1999 1999 1999 2000 2000 2000	0120 0120 0120 0120 0120 0120 0121 0529 0717 0720 0723 0719 0510 0926 0122 0203 0521 09907 0120 0120 0120 0723		
OTHER SO	OURCE	(S):			MARI	PAT	133:	13523	35	Uυ	۷.	,04-	0420	0.5		w	2004	0.010		

Page 71

AB Title compds. [I; X and Z represent each CH or N; R1-3 represent each H, optionally substituted alkoxy, etc.; R4 represents H; R5-8 represent each H, halogeno, alkyl, alkoxy, alkylthio, nitro or amino, provided that all of R5-8 do not represent H simultaneously; R9 and R10 represent each H, alkyl or alkylcarbonyl; and R11 represents alkyl, alkenyl, alkynyl or aralkyl], pharmaceutically acceptable salts and solvates, and medicinal compns. containing the same are prepared and tested having antitumor activity and causing no morphol. change in cells. Thus, the title compound I (X = CH; Z = CH; R1, R4, R5, R7-R10 each an H; R11 = 3,5-F2C6H3) was prepared and tested.

Ι

IT 190728-01-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation and antitumor activity of quinolines and quinazolines)

RN 190728-01-9 CA

CN Urea, N-butyl-N'-[4-[(6,7-dimethoxy-4-quinazolinyl)oxy]phenyl]- (CA INDEX NAME)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 44 OF 44 CA COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 127:34137 CA

TITLE: Preparation of quinoline and quinazoline derivatives

inhibiting platelet-derived growth factor receptor

autophosphorylation

INVENTOR(S): Kubo, Kazuo; Ohyama, Shinichi; Shimizu, Toshiyuki;

Nishitoba, Tsuyoshi; Kato, Shinichiro; Murooka,

Hideko; Kobayashi, Yoshiko; et al.

PATENT ASSIGNEE(S): Kirin Beer Kabushiki Kaisha, Japan

SOURCE: PCT Int. Appl., 243 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	TENT	NO.			KIN	KIND DATE APPLICATION NO.								DATE					
WO	9717	 329			A1	_	1997	0515		wo	 1996-		19961105						
	W: AL, AM, AT,				ΑU,	AZ,	BA,	BB,	BG,	BR	, BY,	CA,	CH,	CN,	CU,	CZ,	DE,		
		DK,	EE,	ES,	FI,	GB,	GE,	HU,	IL,	IS	, JP,	ΚE,	KG,	KR,	KΖ,	LC,	LK,		
		LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN	, MW,	MX,	NO,	NZ,	PL,	PT,	RO,		
		RU,	SD,	SE,	SG,	SI,	SK,	TJ,	TM,	TR	, TT,	UA,	UG,	US,	UZ,	VN	·		
	RW:	KE,	LS,	MW,	SD,	SZ,	UG,	AT,	BE,	СН	, DE,	DK,	ES,	FI,	FR,	GB,	GR,		
		IE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ	, CF,	CG,	CI,	CM,	GA,	GN,	ML,		
		MR,	NE,	SN,	TD,	TG	·	•					•	,			·		
AU	AU 9673400						1997	0529		AU	1996-	7340	0		1	9961	105		
EP	EP 860433							0826		ΕP	1996-	9355	41		1	9961	105		
	8604						2002	0703											
	R:	CH,	DE,	FR,	GB,	LΙ													
JP	4009	681	•	•	В2		2007	1121	JP 1997-518058						19961105				
TW	4838	91			В		2002	0421		TW	1996-	8511	3529		1996110				
US	6143	764			А					US	1998-	6866	0						
PRIORIT	Y APP	LN.	INFO	. :						JP	1995-	3135	55		A 1	9951	107		
											1996-					9960	223		
										WO	1996-	JP32	29		W 1	9961	105		
OTHER S	OURCE	MAR:	PAT	127:	3413	7													

AB The title compds. I [R1 and R2 represent each H or C1-4 alkyl, or R1 and R2 together form C1 to C3 alkylene; X represents O, S or CH2; W represents

CH or N; and Q represents substituted aryl or substituted heteroaryl] are prepared I inhibit platelet-derived growth factor receptor autophosphorylation and are useful in the treatment of cancer, arthritis, etc. The title compound II (preparation given) (at 100 mg/kg i.p. once daily

for

9 days) increased the survival of mice with transplanted leukemic P388 cells by 130%.

IT 190727-15-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of quinoline and quinazoline derivs. inhibiting platelet-derived growth factor receptor autophosphorylation)

RN 190727-15-2 CA

CN Urea, N-[4-[(6,7-dimethoxy-4-quinolinyl)oxy]phenyl]-N'-octyl- (CA INDEX NAME)

=> d his

(FILE 'HOME' ENTERED AT 12:51:37 ON 16 APR 2008)

FILE 'REGISTRY' ENTERED AT 12:51:45 ON 16 APR 2008

L1 STRUCTURE UPLOADED L2 STRUCTURE UPLOADED

L3 47 S L2 SAM L4 978 S L2 FULL

FILE 'CA' ENTERED AT 12:54:28 ON 16 APR 2008

L5 44 S L4

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

STN INTERNATIONAL LOGOFF AT 12:55:04 ON 16 APR 2008